

601/2777
FIGURE 524

MGSPVHRVSLGDTWSRQMHPDIESERYMQSFDVERLTNILDGGAQNTALRRKVESIIHSYPEFSCKDNYFMTQNE
RYKAAMRRAFHIRLIARRLGWLEDGRELGAYRALSGDVALNIHRVFVRALRSLGSEEQIAKWDPLCKNIQIIAT
YAQTELGHGTYLQGLETEATYDAATQEFVIHSPTLTATKWWPGDLGRSATHALVQAQLICSGARRGMHAFIVPIR
SLQDHTPLPGIIIGDIGPKMDFDQTDNGFLQLNHVRVPRENMLSRFAQVLPDGTYYVKLGTAQSNYLEPMVVVRVEL
LSGEILPILQKACVIAMRYSVIRRQSRLRPSDPEAKVLDYQTQQQKLFPLAISYAFHFLAVSLLEFFQHSTAI
LNQDFSFLPELHALSTGMKAMMSEFCTQGAEMCRRACGGHGYSKLSGLPSLVTKLSASCTYEGENTVLYLQVARF
LVKSYLQTMSPGSTPQRSLSPSVAYLTAPDLARCPAQRAADFLCPELYTTAWAHVAVRLIKDSVQHLQTLTQSG
ADQHEAWNQTTVIHLQAAKVHCYYVTVKGFTEALEKLENEPAIQVLKRLCDLHAIHGILTNSGDFLHDAFLSGA
QVDMARTAYLDLLRLIRKDAILLTDAFDFDQCLNSALGCYDGNVYERLFQWAQKSPTNTQENPAYEYIRPLLQ
SWRSKL

602/2777
FIGURE 525

GGCACGAGGGAGCAGCTCCTCTTCCATCTCCAGGGTCTCATTCTGTTGCCAGGCTGGAGTGCAGTGGTGCGATC
TCGGCTCACAGCAACCTCTCTGCCTCCAGAAATGACCTCCACCTTCAACCCCCGAGAATGTAACTGTCCAAGCA
AGAAGGGCAAACCTATGGCTTCTTCTGCGAATTGAGAAAGGACACCGAGGGCCACCTGGTCCGGGTGGTTGAGAA
GTGTAGCCCAGCAGAGAAGGCTGGCCTTCAAGATGGAGACAGAGTTCTTAGGATCAATGGTGTCTTTGTGGACAA
AGAAGAACATATGCAGGTTGTGGATCTGGTCAGAAAGAGTGGGAATTCAGTGACTTTACTAGTTCTGGATGGGGA
TTCCTATGAGAAAGCAGTGAAAACACGGGTGGACTTGAAAGAGTTGGGTCAAAGTCAGAAGGAGCAAGGTTTGAG
TGATAATATACTTTCCCCTGTGATGAATGGAGGTGTGCAAACCTTGGACCCAGCCCCGGCTCTGCTATCTCGTGAA
GGAAGGAGGCAGCTATGGCTTCTCTCTGAAAACCTGTCCAAGGTAAAAAGGGGGTGTACATGACTGATATTACACC
TCAAGGTGTGGCTATGAGAGCTGGAGTTCTGGCTGATGATCATTGATTGAAGTGAATGGAGAGAATGTAGAGGA
TGCCAGCCATGAGGAAGTGGTTGAAAAGGTGAAGAAGTCAGGAAGCCGTGTCATGTTCTGCTGGTGGACAAAGA
AACTGACAAGCGTCATGTTGAGCAGAAGATACAATTCAAAAGAGAAACAGCCAGTTTGAACTGTTACCCACCA
GCCCCGAATTGTGGAGATGAAGAAAGGAAGCAATGGCTATGGTTTCTATCTGAGGGCAGGCTCAGAACAGAAAGG
TCAAATCATCAAGGACATAGATTCTGGAAGTCCAGCAGAGSAGGCTGGCTTGAAGAACAAATGATCTGGTAGTTGC
TGTCACGGCGAGTCTGTGGAACCCCTGGATCATGACAGTGTGGTAGAAATGATTAGAAAGGGTGGAGATCAGAC
TTCCTGTTGGTGGTAGACAAAGAGACGGACAACATGTACAGACTGGCTCATTTTTCTCCATTTCTCTACTATCA
AAGTCAAGAACTGCCCCAATGGCTCTGTCAAGGAGGCTCCAGCTCCTACTCCCACTTCTCTGGAAGTCTCAAGTCC
ACCAGATACTACAGAGGAAGTAGATCATAAGCCTAAACTCTGCAGGCTGGCTAAAGGTGAAAATGGCTATGGCTT
TCACTTAAATGCGATTCCGGGTCTGCCAGGCTCATTATCAAAAGAGGTACAGAAGGGCGGTCTCTGCTGACTTGGC
TGGGCTAGAGGATGAGGATGTCATCATTGAAGTGAATGGGGTGAATGTGCTAGATGAACCCCTATGAGAAGGTGGT
GGATAGAATCCAGAGCAGTGGGAAGAATGTCACACTTCTAGTCTGTGGAAGAAGGCCTATGATTATTTCCAAGC
TAAGAAAATCCCTATTGTTTCTCCCTGGCTGATCCACTTGACACCCCTCCAGATTCTAAAGAAGGAATAGTGGT
GGAGTCAAACCATGACTCGCACATGGCAAAAAGAACGGGGCCACAGTACAGCCTCACATTCTTCTCCAATTCTGA
AGATACAGAGATGTGATGAAAACAAGTAATAGCTTTGGCTGTTTATTTGATAGCTGTTTCTGGGTATTTAATAGG
AATCCTTTCTCAAGGAATGAGTTGTGACCTGTTTACTGTCTCTTTAGAAGAAAACTCCACTGGAAACCATTCAC
CATGTGTGATTGTCTTCTGTTATCATTTGTCTTACAGGCGGCTATTGCAGACGGCTAATTTATGCTTAACTTAGG
AAGAGATAAGGCAAGAGCTAGATTTTTTTCATGTGATCTTTTCCAAGCTTCAACTTAACTTAACTACATTTCTCT
GTATGATGATGTCTTACTTCTACAGGTTCCCTTGAGCACCAAGATGATTTCATAACTCTGTATAGGTGACAGCT
GCTTATAAAAGCATCTTAGCAGATAAGCCTATTAAAATTGTGCTTTTGTAAACAATGTTGTGGTTGCTAGAATAAA
TACCATTAAACAATGCAAAAAAAAAAAAAAAAAAAAAAAAAA

603/2777
FIGURE 526

MTSTFNPRECKLSKQEGQNYGFFLRIEKDTEGHLVRVVEKCSPAEKAGLQDGDRLRINGVFVDKEEHMQVVDLV
RKSGNSVTLLVLDGDSYEKAVKTRVDLKELGQSQKEQGLSDNILSPVMNGGVQTWTQPRLCYLVKEGGSYGFSLK
TVQGKKGVYMTDITPQGVAMRAGVLADDHLIEVNGENVEDASHEEVVEKVKKSGSRVMFLLVDKETDKRHVEQKI
QFKRETASLKLPHQPRIVEMKKGSNGYGFYLRAGSEQKGQIIKDIDSGSPAEEAGLKNNDLVVAVNGESVETLD
HDSVEMIRKGGDQTSLLVVDKETDNMYRLAHFSPFLYYQSQELPNGSVKEAPAPTPTSLEVSSPPDTTEEVDHK
PKLCRLAKGENGYGFHLNAIRGLPGSFIKEVQKGGPADLAGLEDEDVIEVNGVNVLDPEYEKVVDRIQSSGKNV
TLLVCGKKAYDYFQAKKIPVSSSLADPLDTPPDSKEGIVVESNHDSHMAKERAHSTASHSSSNSSEDTM

604/2777
FIGURE 527

GCAGTTCTGGTCCTCCTAGGAGCGGCCGCCTGCGCGGCGCGGCCCCCGTGGTCGGATGCTGGGCGGCAGAGAGGCC
GAGGCGCACGCGCGGCCCTACATGGCGTCGGTGCAGCTGAACGGCGCGCACCTGTGCGCAGGCGTCCTGGTGGCG
GAGCGGTGGGTGCTGAGCGCGGCGCACTGCCTGGAGGACGCGGCCGACGGGAAGGTGCAGGTTCTCCTGGGCGCG
CACTCCCTGTGCGAGCCGGAGCCCTCCAAGCGCCTGTACGACGTGCTCCGCGCAGTGCCCCACCCGGACAGCCAG
CCCGACACCATCGACCACGACCTCCTGCTGCTACAGCTGTGCGAGAAGGCCACACTGGGCCCTGCTGTGCGCCCC
CTGCCCTGGCAGCGCGTGGACCGCGACGTGGCACCGGGAAGTCTCTGCGACGTGGCCGGCTGGGGCATAGTCAAC
CACGCGGGCCGCCGCCCGGACAGCCTGCAGCACGTGCTCTTGCCAGTGCTGGACCGCGCCACCTGCAACCGGCGC
ACGCACCACGACGGCGCCATCACCGAGCGCTTGATGTGCGCGGAGAGCAATCGCCGGGACAGCTGCAAGGGTGAC
TCCGGGGGCCCGCTGGTGTGCGGGGGCGTGCTCGAGGGCGTGGTCACCTCGGGCTCGCGCGTTTGCGGCAACCGC
AAGAAGCCCGGGATCTACACCCGCGTGGCGAGCTATGCGGCCTGGATCGACAGCGTCCTGGCCTAGGGTGCCGGG
GCCTGAAGGTCAGGGTCACCCAAGCAACAAAGTCCCAGCAATGAAGTCATCCACTCCTGCATCTGGTTGGTCTT
TATTGAGCACCTACTATATGCAGAAGGGGAGGCCGAGGTGGGAGGATCATTGGATCTCAGGAGTTGGAGATCAGC
ATGGGCCACGTAGCGCGACTCCATCTCTACAAATAAATAAAAATTAGCTGGGCAATTGGCGGGCATGGAGGTGGG
TGCTTGTTAGTTCCAGCTACTCAGGAGGCTGAGGTGGGAGGATGACTTGAACGCAGGAGGCTGAGGCTGCAGTGAG
TTGTGATTGCACCACTGCCCT

605/2777
FIGURE 528

MLGGREAEAHARPYMASVQLNGAHLCAAGVLVAERWVLSAAHCLEDAADGKVQVLLGAHSLSQPEPSKRLYDVLRA
VPHPDSPDPTIDHDLQLSEKATLGPAVRPLPWQRVDRDVAPGTLCDVAGWGIVNHAGRRPDSLQHVLLPVLD
RATCNRRTHHDGAITERLMCAESNRRDSCKGDSGGPLVCGGVLEGVVTSGSRVCGNRKKPGIYTRVASIAAWIDS
VLA

606/2777
FIGURE 529

ACATTTCAAAAAAATACATAGACTGATGTTTCAGACTTGTGCAGCATAAGCCTACAGGGTACGAAGAATGAACT
CTGAGAATGTTTGGAGAATGTTTCATCATTACTAACAGGATATTCCATGACATTGCTGTCTGATCTTTGACCA
TCAGTCTGTGACCTGCCCCCTTCTCTTTACATGCAGCCGCTCTCTGCTCCCTGCCCCAATGAACATCTGCACTAGG
CCCAAGCCTTGGAGTAATTTACCTGAAGAGTGACACCATTGATTTTGAAGCTACTGAAGAAACCCAAGACAGCTG
AAAACCAGAAGGCATCTGAGGAGAATGAGATTACTCAGCCGGGTGGATCCAGCGCCAAGCCGGGCCCTTCCCTGCC
TGAACTTTGAAGCTGTTTTGTCTCCAGACCCAGCCCTCATCCACTCAACACATTCACTGACAACTCTCACGCTC
ACACCGGGTCATCTGATTGTGACATCAGTTGCAAGGGGATGACCGAGCGCATTACAGCATCAACCTTCACAACT
TCAGCAATTCCGTGCTCGAGACCCTCAACGAGCAGCGCAACCGTGGCCACTTCTGTGACGTAACGGTGCGCATCC
ACGGGAGCATGCTGCGCGCACACCGCTGCGTGCTGGCAGCCGGCAGCCCCCTTCTTCCAGGACAACTGCTGCTTG
GCTACAGCGACATCGAGATCCCGTGGTGCTGAGTGCAAGCTCATTGACTTCATGTACAGCG
GCGTGCTACGGGTCTCGCAGTCGGAAGCTCTGCAGATCCTCAGGCCGCCAGCATCCTGCAGATCAAAACAGTCA
TCGACGAGTGACGCGCATCGTGTCACAGAACGTGGGCGATGTGTTCCCGGGGATCCAGGACTCGGGCCAGGACA
CGCCGCGGGGCACTCCCGAGTCAGGCACGTGAGGCCAGAGCAGCGACACGGAGTCGGGCTACCTGCAGAGCCACC
CACAGCACAGCGTGGACAGGATCTACTCGGCACTCTACGCGTGCTCCATGCAGAATGGCAGCGGCGAGCGCTCTT
TTTACAGCGGCGCAGTGGTCAGCCACCACGAGACTGCGCTCGGCCTGCCCCGCGACCACCACATGGAAGACCCCCA
GCTGGATCACACGCATCCATGAGCGCTCGCAGCAGATGGAGCGCTACCTGTCCACCACCCCGAGACCACGCACT
GCCGCAAGCAGCCCCGGCCTGTGCGCATCCAGACCCTAGTGGGCAACATCCACATCAAGCAGGAGATGGAGGACG
ATTACGACTACTACGGGCAGCAAAGGGTGCAATCCTGGAACGCAACGAATCCGAGGAGTGACGGAAGACACAG
ACCAGGCCGAGGGCACCGAGAGTGAGCCCCAAAGGTGAAAGCTTCGACTCGGGCGTCAGCTCCTCCATAGGCACCG
AGCCTGACTCGGTGGAGCAGCAGTTTGGGCCCTGGGGCGGCGGGGACAGCCAGGCTGAACCCACCCAACCCGAGC
AGGCTGCAGAAGCCCCCGCTGAGGGTGGTCCGCAGACAAACCAGCTAGAAACAGGTGCTTCTCTCCGGAGAGAA
GCAATGAAGTGGAGATGGACAGCACTGTTATCACTGTGCAACAGCTCCGACAAGAGCGTCTTACAACAGCCTT
CGGTCAACACGTCCATCGGGCAGCCATTGCCAAGTACCCAGCTCTACTTACGCCAGACAGAAACCTCACCAGCA
ACCTGAGGATGCCTCTGACCTTGACCAGCAACACGCAGGTCAATTGGCACAGCTGGCAACACCTACCTGCCAGCCC
TCTTCACTACCCAGCCCGCGGGCAGTGGCCCCAAGCCTTCTCTTTCAGCCTGCCACAGCCCCCTGGCAGGCCAGC
AGACCCAGTTTGTGACAGTGTCCAGCCCCGTCTGTGACCTTTACTGACAGCTGCCAGCGCCACAGCCCCCTGG
CCTCATCCGCAGGCCACAGCACAGCCAGTGGGCAAGGCGAAAAAAGCCTTATGAGTGCATCTCTGCAACAAGA
CTTTCACCGCCAAACAGAACTACGTCAAGCACATGTTTCTGACACACAGGTGAGAAGCCCCACCAATGCAGCATCT
GTTGGCGCTCCTTCTCTTAAAGGATTACCTTATCAAGCACATGGTGACACACACAGGAGTGAGGGCATACCACT
GTAGTATCTGCAACAAGCGCTTACCCAGAAGAGTCCCTCAACGTGCATGCGCCTCCACCGGGGAGAGAAGT
CCTACGAGTGCTACATCTGCAAAAAGAAGTTCTCTCACAAAGACCCTCCTGGAGCGACACGTGGCCCCTGACAGTG
CCAGCAATGGGACCCCCCTGCAGGCACACCCCCAGGTGCCCGCGCTGGCCCCCAGGCGTGGTGGCCTGCACGG
AGGGGACCACTTACGTCTGCTCCGTCTGCCCAGCAAAGTTTGACCAATCGAGCAGTTCAACGACCACATGAGGA
TGCAATGTGTCTGACGGATTAAGTAGTATCTTCTCTCTTTCTTATGAACAAAACAAAACAACAACAAAAACAAAC
AAACAAAAAAGCTATGGCACTAGAATTTAAGAAATGTTTTGGTTTCATTTTACTTTCTGTTTTTGTGTTTTGTTT
CGTTTCATTTTGTACTACATGAAGAACTGTTTTTGCCTGCTGGTACATTACATTTCCGGAGGCTTGGGTGAATA
ATAGTTTTCCAGTCTCCCTCGGATGGTGGCCTTAAGGCCTGGTAGTGCTTCAAGAGGTCCACTGGTTGGATCTC
TAGCTACTGGCCTCTAAATACAACCCCTTCTTACAAAAA

607/2777
FIGURE 530

MTERIHSINLHNFSNSVLETLNEQRNRGHFCDVTVRIHGSMRLAHRCVLAAGSPFFQDKLLLGYSIDIEIPSVVSV
QSVQKLIDFMYSGVLRVSQSEALQILTAASILQIKTVIDECTRIVSQNVGDVFPQIQDSGQDTPRGTPESGTSGQ
SSDTESGYLQSHPOHSVDRIYSALYACSMQNGSGERSFYSGAVVSHHETALGLPRDHHMEDPSWITRIHERSQQM
ERYLSTTPETTHCRKQPRPVRIQTLVGNIIHIKQEMEDDYDYYGQQRVQILERNESEECTEDTDQAEGETESEPKGE
SFDSGVSSSIGTEPDSVEQQFGPGAARDSQAEPTQPEQAAEAPAEGGPQTNQLETGASSPERSNEVEMDSTVITV
SNSSDKSVLQQPSVNTSIGQPLPSTQLYLRQTETLTSNLRMPLTLTSNTQVIGTAGNTYLPALFTTQFAGSGPKP
FLFSLPQPLAGQQTQFVTVSQPLSTFTAQLPAPQPLASSAGHSTASGQGEKKPYECTLCNKTF TAKQNYVKHMF
VHTGEKPHQCSICWRSFSLKDYLKHMVTHTGVRAYQCSICNKRFTQKSSLNVHMRMLHRGEKSYECYICKKKFSH
KTLLEHVALHSASNGTPPAGTPPGARAGPPGVVACTEGTTYVCSVCPAKFDQIEQFNDHMRMHVSDG

608/2777
FIGURE 531

TGCAGACTGATATGGATTCACTGCTAACACCTCCTGGTTGGAACTACAGGAATAGAACTGGAAAGGGAAAAA
AGGCAGCATTCAACACATCCCAATCCTGAATCCAAGAGTCTAAGATAGTCCCCACTCCTATCTCAGGCTTAGAG
GATTAGATTAATCTCCTGGAGGGAAGACTCTTCCTTGAAACATTTTTTTTATCTGCCTGTAGCTATTGGGATAA
TTCGGGAAATCCACAGGGACAGTTCAAGTCATCTTTGTCTCTACTTTCTGTTGCACTCTCAGCCTTGTTCTCTT
TTTAGAAACTGCATGGTAACTATTATATAGCTAAAGAAGAGCATTCTGACCTCTGCCCTGGGACTTCCTGGATCC
TCCTCTTCTTATAAAATACAAGGGCAGAGCTGGTATCCCGGGGAGCCAGGAAGCAGTGAGCCCAGGAGTCCTCGGC
CAGCCCTGCCTGCCCACCAGGAGGATGAAGGTCTCCGTGGCTGCCCTCTCCTGCCTCATGCTTGTGTGCTGTCCTT
GGATCCCAGGCCCAGTTCACAAATGATGCAGAGACAGAGTTAATGATGTCAAAGCTTCCACTGGAAAATCCAGTA
GTTCTGAACAGCTTTCACTTTGCTGCTGACTGCTGCACCTCCTACATCTCACAAAGCATCCCGTGTTCACTCATG
AAAAGTTATTTTGAAACGAGCAGCGAGTGCTCCAAGCCAGGTGTCATATTCTCACCAGAGGGGGCGCAAGTC
TGTGCCAAACCCAGTGGTCCGGGAGTTTCAAGATTGCATGAAAAAGCTGAAGCCCTACTCAATATAATAAAGA
GACAAAAGAGGGCCAGCCACCCACCTCCAACACCTCCTGAGCCTCTGAAGCTCCCACCAGGCCAGCTCTCCTCCCA
CAACAGCTTCCCACAGCATGAAGATCTCCGTGGCTGCCATTCCCTTCTTCTCCTCATCACCATCGCCCTAGGGA
CCAAGACTGAATCCTCCTCACAACTGGGGGGAAACCGAAGGTTGTTAAAATACAGCTAAAGTTGGTGGGGGGAC
CTTACCACCCCTCAGAGTGCTGCTTACCTACACTACCTACAAGATCCCGCGTCAGCGGATTATGGATTACTATG
AGACCAACAGCCAGTGCTCCAAGCCCGGAATTGTCTTCATCACCAAAAGGGGCCATTCCGTCTGTACCAACCCCA
GTGACAAGTGGGTCCAGGACTATATCAAGGACATGAAGGAGAACTGAGTGACCCAGAAGGGGTGGCGAAGGCACA
GCTCAGAGACATAAAGAGAAGATGCCAAGGCCCCCTCCTCCACCCACCGCTAACTCTCAGCCCCAGTCACCCCTCT
TGGAGCTTCCCTGCTTTGAATTAAAGACCACTCATGCTCTTC

609/2777
FIGURE 532

MKISVAAIPFFLLITIALGKTESSSQTGGKPKVVKIQLKLVGGPYHPSECCFTYTTYKIPRQRIMDYETNSQC
SKPGIVFITKRGHSVCTNPSDKWVQDYIKDMKEN

610/2777
FIGURE 533

ACCACCAATGAATCTACTTCTGATCCTTACCTTTGTTGCAGCTGCTGTTGCTGCCCCCTTTGATGATGATGACAAG
ATCGTTGGGGGCTACATCTGTGAGGAGAATTCTGTCCCCTACCAGGTGTCCTTGAATTCTGGCTACCACTTCTGC
GGTGGCTCCCTCATCAGCGAACAGTGGGTGGTGTGTCAGCAGGTCACTGCTACAAGTCCCGCATCCAGGTGAGACTG
GGAGAGCACAAACATCGAAGTCCTGGAGGGGAATGAACAGTTCATCAATGCAGCCAAGATCATCCGCCACCCCAA
TACAACAGCCGGACTCTGGACAATGACATCCTGCTGATCAAGCTCTCCTCACCTGCCGTCATCAATTCCCGCGTG
TCCGCCATCTCTCTGCCCCACTGCCCCCTCCAGCTGCTGGCACCGAGTCCCTCATCTCCGGCTGGGGCAACACTCTG
AGTTCTGGTGCCGACTACCCAGACGAGCTGCAGTGCCTGGATGCTCCTGTGCTGAGCCAGGCTGAGTGTGAAGCC
TCCTACCCTGGAAAGATTACCAACAACATGTTCTGTGTGGGCTTCCTCGAGGGAGGCAAGGATTCTGCCAGGGT
GATTCTGGTGGCCCTGTGGTCTCCAATGGAGAGCTCCAAGGAATTGTCTCCTGGGGCTATGGCTGTGCCCAGAAG
AACAGGCCTGGAGTCTACACCAAGGTCTACAACATATGTGGACTGGATTAAGGACACCATAGCTGCCAACAGCTTAA
AGCCCCCTGGTCCCTCTGCAGTCTCTATACCAATAAAGTGACCCTGCTCTCAC

611/2777
FIGURE 534

MNLLLILTFVAAAVAAPFDDDDKIVGGYICEENSVPYQVSLNSGYHFCGGSLISEQWVVSAGHCYKSRIQVRLGE
HNIEVLEGNEQFINAAKIIRHPKYNSRTLNDNDILLIKLSSPAVINSRVSAISLPTAPPAAGTESLISGWGNTLSS
GADYPDELQCLDAPVLSQAECEASYPGKITNNMFCVGFLEGGKDSCQGDSSGPPVVSNGELQGIVSWGYGCAQKNR
PGVYTKVYNYVDWIKDTIAANS

612/2777
FIGURE 535

ATTGAGAGGCTGCTGCCTGCTTAGGAGGTTGTAGAAAAGCTCTGTAGGTTCTCTCTGTGTGTCCTACAGGAGTCTT
CAGGCCAGCTCCCTGTGCGAATGCTTTTATGAAAAAATATCTCCTCCCCATTCTGGGGCTCTTCATGGCCTACTA
CTACTATTCTGCAAACGAGGAATTGAGACCAGAGATGCTCCAAGGAAAGAAAGTGATTGTACAGGGGGCCAGCAA
AGGGATCGGAAGAGAGATGGCTTATCATCTGGCGAAGATGGGAGCCCATGTGGTGGTGACAGCGAGGTCAAAAGA
AACTCTACAGAAGGTGGTATCCCACTGCCTGGAGCTTGGAGCAGCCTCAGCACACTACATTGCTGGCACCATGGA
AGACATGACCTTCGCAGAGCAATTTGTTGCCCAAGCAGGAAAGCTCATGGGAGGACTAGACATGCTCATTCTCAA
CCACATACCAACACTTCTTTGAATCTTTTTTCATGATGATATTACCATGTGCGCAAAAGCATGGAAGTCAACTT
CCTCAGTTACGTGGTCTCTGACTGTAGCTGCCTTGCCCATGCTGAAGCAGAGCAATGGAAGCATTGTTGTCGTCTC
CTCTCTGGCTGGGAAAGTGGCTTATCCAATGGTTGCTGCCTATTCTGCAAGCAAGTTTGCTTTGGATGGGTTCTT
CTCCTCCATCAGAAAGGAATATTCAGTGTCCAGGGTCAATGTATCAATCACTCTCTGTGTTCTTGGCCTCATAGA
CACAGAAACAGCCATGAAGGCAGTTTCTGGGATAGTCCATATGCAAGCAGCTCCAAAGGAGGAATGTGCCCTGGA
GATCATCAAAGGGGGAGCTCTGCGCCAAGAAGAAGTGATTATGACAGCTCACTCTGGACCACTCTTCTGATCAG
AAATCCATGCAGGAAGATCCTGGAATTTCTCTACTCAACGAGCTATAATATGGACAGATTCATAAACAAGTAGGA
ACTCCCTGAGGGCTGGGCATGCTGAGGGATTTGGGACTGTTCTGTCTCATGTTTATCTGAGCTCTTATCTATGA
AGACATCTTCCCAGAGTGTCCCCAGAGACATGCAAGTCATGGGTCACACCTGACAAATGGAAGGAGTTCCTCTAA
CATTGCAAAATGGAATGTAATAATAATGAATGTCATGCACCGCTGCAGCCAGCAGTTGTAAAATTGTTAGTAA
ACATAGGTATAATTACCAGATAGTTATATTAAATTTATATCTTATATATAATAATATGTGATGATTAATACAATA
TTAATTATAATAAAGGTCACATAAACTTTATAAATTCATAACTGGTAGCTATAACTTGAGCTTATTCAGGATGGT
TCTTTAAACCATAAACTGTACAATG

613/2777
FIGURE 536

MAFMKKYLLPILGLFMAÿÿÿÿSANEFRPEMLQGKKVIVTGASKGIGREMAYHLAKMGAVVVTARSKETLQKV
SHCLELGAASAHYIAGTMEDMTFAEQFVAQAGKLMGGLDMLILNHITNTSLNLFHDDIHHVRKSMEVNFLSYVVL
TVAALPMLKQSNLSIVVSSLAGKVAYPMVAAYSASKFALDGFFSSIRKEYSVSRVNV SITLCVLGLIDTETAMK
AVSGIVHMQAAPKEECALEIIKGGALRQEEVYDSSLWTTLLIRNPCRKILEFLYSTSYNMDRFINK

614/2777
FIGURE 537

ACAGCAGTTACACTGCGGCGGGCGTCTGTTCTAGTGTGTTGAGCCGTCGTGCTTCACCGGTCTACCTCGCTAGCAT
GTCGGGCGCGGCAAGACTGGCGGCAAGGCCCGCGCCAAGGCCAAGTCGCGCTCGTCGCGCGCGGCCCTCCAGTT
CCCAGTGGGCGGTGTACACCGGCTGCTGCGGAAGGGCCACTACGCCGAGCGCGTTGGCGCGCGCGGCCAGTGTA
CCTGGCGGCAGTGCTGGAGTACCTCACCCTGAGATCCTGGAGCTGGCGGGCAATGCGGCCCGCGACAACAAGAA
GACGCGAATCATCCCCGCCACCTGCAGCTGGCCATCCGCAACGACGAGGAGCTCAACAAGCTGCTGGGCGGCGT
GACGATCGCCCAGGGAGGCGTCTGCCCAACATCCAGGCCGTGCTGCTGCCCAAGAAGACCAGCGCCACCGTGGG
GCCGAAGGCGCCCTCGGGCGGCAAGAAGGCCACCCAGGCCCTCCCAGGAGTACTTAGAGGGCGCGCGCGGGCCG
GCCGCCCCAGCTCCCCATGCCACCACAAAGGCCCTTTTAAGGGCCACCACCGCCCTCATGGAAAGAGCTGAGCCG
CTTCAGACTGCGGGGCAAGCGGGCGCGGCTCCCTTCCCTCCCTCCCTCGCCCGCCTTCGCCGCGCGGCCCTC
GAGTCCCCGCGCGCCCCGCTCCCGTCCCGCACCGCCTGCCGCTCGGCCCTCGGGCCTGCCCTGTCCGCGCTCCG
CCCTCCGGTAGGGTTTCGGGCTTCCGGATGCGGCTTGGGCGCTCTTCGGGGACCTCCGTGGCGCGGAAGACCCGA
GCCTGCCGGGGGGAGGCCGGCGGGCGCGCACCTGCCCGCTCGGCGTTCGTGACTCAGCCGCCCCATCCCCGAGTC
GCTAAGGGGCTGCGGGGAGGCCGCGAGCACCTTCTGGAAGACTTGGCCTTCCGCTCTGACGCGAGGGCCGAGGTGGG
CAGTCCAGGCCGAGAGCCGGCGGGCCCTGAAGGTGAGTGAGGCCCTCGGCAGCTGCAGCCGGGGTGTCTGGTACCC
CCCCGGCGTGGTGCTTAGCCCAGGACTTTCAGACGGCCGCTGGCCGGGAGGCTTTGGTGGGAGAGACGCGATCGC
CGATTTCCGTCTGGCGCCCCCTTCTGCGGCCGGGACCCAGGCCTTTCACATCAGCTCTCCCTCCATCTTCATTCAT
AGGTCTGCGCTGGGGCCGGGACGAAGCACTTGTTAACAGGCACATCTTCCTCCCGAGTGACTGCCTCCTAGGAGG
ACATTTAGGGGAGGGCAGAGGCCTGCAGTTTGGCTTCACGGCTGGCTATGTGGACAGCAAGAGTCGTTTTGCGGA
ACGCGACTGGCAGCCAGGCCTGTGCGGCCCCCGACGCCGCCCATTTCCCTTCCAGCAAACCTCAACTCGGCAATC
CAAGCACCTAGATACCAGCACAAAGTCGGTTAATCCCTGTCTGGACTGAGCCTCCGTTGGCTTCTGAACTGGAATT
CTGCAGCTAACCCTTCCACGACTAGAACCTTAGGCATTGGGGAGTTTTAGATGGACTAATTTTATTAAAGGATTG
TTTTTTTTTT

615/2777
FIGURE 538

MSGRGKTGGKARAKAKSRSSRAGLQFPVGRVHRLLRKGHYAERVGAGAPVYLAADVLEYLTAEILELAGNAARDNK
KTRIIPRHLQLAIRNDEELNKLLGGVTIAQGGVLPNIQAVLLPKKTSATVGPKAPSGGKKATQASQEY

616/2777
FIGURE 539

CATTCCCACCCCTTCCTTCTTTAATAAGCAGGAGCGAAAAAGACAAATTCCAAAGAGGATTGTTTCAGTTCAAGGGA
ATGAAGAATTCAGAATAATTTTGGTAAATGGATTCCAATATCGGGAATAAGAATAAGCTGAACAGTTGACCTGCT
TTGAAGAAACATACTGTCCATTTGTCTAAAATAATCTATAACAACCAACCAATCAAAATGAATTCAACATTATT
TTCCCAGGTTGAAAATCATTTCAGTCCACTCTAATTTCTCAGAGAAGAATGCCAGCTTCTGGCTTTTGAAAATGA
TGATTGTCATCTGCCCTTGGCCATGATATTTACCTTAGCTCTTGCTTATGGAGCTGTGATCATTCTTGGTGTCTC
TGGAACCTGGCCTTGATCATAATCATCTTGAAACAAAAGGAGATGAGAAATGTTACCAACATCCTGATTGTGAA
CCTTTCTTCTCAGACTTGCTTGTGGCCATCATGTGTCTCCCCTTTACATTTGTCTACACATTAATGGACCACTG
GGTCTTTGGTGAGGCGATGTGTAAGTTGAATCCTTTTGTGCAATGTGTTTCAATCACTGTGTCCATTTTCTCTCT
GGTTCTCATTGCTGTGGAACGACATCAGCTGATAATCAACCCTCGAGGGTGGAGACCAATAATAGACATGCTTA
TGTAGGTATTGCTGTGATTGGGTCCTTGCTGTGGCTTCTTCTTTGCCCTTCCTGATCTACCAAGTAATGACTGA
TGAGCCGTTCCAAAATGTAACACTTGATGCGTACAAAGACAAATACGTGTGCTTTGATCAATTTCCATCGGACTC
TCATAGGTTGTCTTATACCACTCTCCTCTTGGTGTGCTGAGTATTTTGGTCCACTTTGTTTTATATTATTGCTA
CTTCAAGATATATATACGCCTAAAAAGGAGAAACAACATGATGGACAAGATGAGAGACAATAAGTACAGGTCCAG
TGAAACCAAAAGAATCAATATCATGCTGCTCTCCATTGTGGTAGCATTTCAGTCTGCTGGCTCCCTCTTACCAT
CTTTAACACTGTGTTTGATTGGAATCATCAGATCATTGCTACCTGCAACCACAATCTGTTATTCTGCTCTGCCA
CCTCACAGCAATGATATCCACTTGTGTCAACCCCATATTTTATGGGTTCCCTGAACAAAACTTCCAGAGAGACTT
GCAGTTCTTCTTCAACTTTTGTGATTTCCGGTCTCGGGATGATGATTATGAAACAATAGCCATGTCCACGATGCA
CACAGATGTTTCCAAAACCTTCTTTGAAGCAAGCAAGCCAGTGCATTTAAAAAATCAACAACAATGATGATAA
TGAAAAAATCTGAAACTACTTATAGCCTATGGTCCCGGATGACATCTGTTTAAAAACAAGCACAACTGCAACAT
ACTTTGATTACCTGTTCTCCCAAGGAATGGGGTTGAAATCATTGAAAATGACTAAGATTTTCTTGTCTTGCTTT
TTACTGCTTTTGTGTAGTTGTGCATAATTACATTTGGAACAAAAGGTGTGGGCTTTGGGGTCTTCTGGAATAGT
TTTGACCAGACATCTTTGAAGTGCTTTTGTGAATTTATGCATATAATATAAAGACTTTTATACTGTACTTATTG
GAATGAAATTTCTTTAAAGTATTACGATGCGCTGACTTCAGAAGTACCTGCCATCCAATACGGTCATTAGATTGG
GTCATCTTGATTAGATTAGATTAGATTGTCAACAGATTGGGCCATCCTTACTTTATGATAGGCATCATTT
TAGTGTGTTACAATAGTAACAGTATGCAAAAGCAGCATTGAGGAGCCGAAAGATAGTCTTGAAGTCATTGAGAAG
TGGTTTGAGGTTTCTGTTTTTGGTGGTTTTTGTGTTTTTTTTTTTTTTTACCTTAAGGGAGGCTTTTCATTTT
CTCCCGACTGATTGTCACTTAAATCAAAATTTAAAAATGAATAAAAAGACATACTTCTCAGCTGCAAAATATTATG
GAGAATTGGGCACCCACAGGAATGAAGAGAGAAAGCAGCTCCCCAACTTCAAACCAATTTGGTACCTGACAACA
AGAGCATTTTAGAGTAATTAATTTAATAAAGTAAATAGTATTGCTGCAAATAGCTAAATTATATTTTGAAT
TGATGGTCAAGAGATTTTCCATTTTTTTTACAGACTGTTTCAGTGTGTTGTCAAGCTTCTGGTCTAATATGTACTCG
AAAGACTTTCCGCTTACAATTTGTAGAAACACAAATATCGTTTTCCATACAGCAGTGCCTATATAGTGACTGATT
TTAACTTTCAATGTCCATCTTTCAAAGGAAGTAACACCAAGGTACAATGTTAAAGGAATATTCACTTTACCTAGC
AGGGAAAAATACACAAAACTGCAGATACTTCATATAGCCCATTTTAACTTGTATAAACTGTGTGACTTGTGGCG
TCTTATAAATAATGCACTGTAAAGATTACTGAATAGTTGTGTGATGTTAATGTGCCTAATTTTATGTATCTTGTA
ATCATGATTGAGCCTCAGAATCATTGAGAGAACTATATTTAAAGAACAAGACATACTTCAATGTATTATACAG
ATAAAGTATTACATGTGTTTGATTTTAAAGGGCGGACATTTTATTTAAATCAATATTGTTTTTGCTTTTTCTGA
GGAGTCTCTTCAGTTTCATTTTTTCTCATCCCATGACTTCCCTCCGATGGT

617/2777
FIGURE 540

MNSTLFSQVENHSVHSNFSEKNAQLLAFENDDCHLPLAMIFTLALAYGAVIILGVSGNLALIIIIILKQKEMRNV
NILIVNLSFSDLLVAIMCLPFTFVYTLMDHWVFGAMCKLNPFVQCVSITVSIFSLVLI AVERHQLIINPRGWRP
NNRHAYVGIAVIWVLAVASSLPFLIYQVMTDEPFQNVTLDAYKDKYVCFDQFPSSDHRLSYTTLLLVLYFGPLC
FIFICYFKIYIRLKRRNNMMDKMRDNKYRSSETKRINIMLLSIVVAFVWCWLPLTIFNTVFDWNHQIIATCNHNL
LFLLCHLTAMISTCVNPIFYGFLNKNFQRLQFFNFCDFRSRDDDYETIAMSTMHTDVSKTSLKQASPVAFKKI
NNNDNEKI

618/2777
FIGURE 541

CACTCCCAAAGAACTGGGTACTCAACACTGAGCAGATCTGTTCTTTGAGCTAAAAACCATGTGCTGTACCAAGAG
TTTGCTCCTGGCTGCTTTGATGTCAGTGCTGCTACTCCACCTCTGCGGCGAATCAGAAGCAGCAAGCAACTTTGA
CTGCTGTCTTGGATACACAGACCGTATTCTTCATCCTAAATTTATTGTGGGCTTCACACGGCAGCTGGCCAATGA
AGGCTGTGACATCAATGCTATCATCTTTACACAAAGAAAAAGTTGTCTGTGTGCGCAAATCCAAAACAGACTTG
GGTGAATATATTGTGCGTCTCCTCAGTAAAAAGTCAAGAACATGTAAAAACTGTGGCTTTTCTGGAATGGAAT
TGGACATAGCCCAAGAACAGAAAGAACCTTGCTGGGGTTGGAGGTTTCACTTGCACATCATGGAGGGTTTAGTGC
TTATCTAATTTGTGCCTCACTGGACTTGTCCAATTAATGAAGTTGATTCATATTGCATCATAGTTTGCTTTGTTT
AAGCATCACATTAAAGTTAAACTGTATTTTATGTTATTTATAGCTGTAGGTTTTCTGTGTTTAGCTATTTAATAC
TAATTTTCCATAAGCTATTTTGGTTTAGTGCAAAGTATAAAATTATATTGGGGGGGAATAAGATTATATGGACT
TTCTTGCAAGCAACAAGCTATTTTAAAAAAACTATTTAACATTCTTTGTTTATATTGTTTGTCTCCTAAAT
TGTTGTAATTGCATTATAAAATAAGAAAAACATTAATAAGACAAATATT

619/2777
FIGURE 542

MCCTKSLLLAALMSVLLHLGGESEAASNFDCCLGYTDRILHPKFIVGFTRQLANEGCDINAIIFHTKKKLSVCA
NPKQTWVKYIVRLLSKKVKNM

620/2777
FIGURE 543

CGGCTGAGAGGCAGCGAACTCATCTTTGCCAGTACAGGAGCTTGTGCCGTGGCCACAGCCCACAGCCCACAGCC
ATGGGCTGGGACCTGACGGTGAAGATGCTGGCGGGCAACGAATTCCAGGTGTCCCTGAGCAGCTCCATGTCGGTG
TCAGAGCTGAAGGCGCAGATCACCCAGAAGATTGGCGTGCACGCCTTCCAGCAGCGTCTGGCTGTCCACCCGAGC
GGTGTGGCGCTGCAGGACAGGGTCCCCCTTGCCAGCCAGGGCCTGGGCCCTGGCAGCACGGTCTCTGCTGGTGGTG
GACAAATGCGACGAACCTCTGAGCATCCTGGTGAGGAATAACAAGGGCCGCAGCAGCACCTACGAGGTCCGGCTG
ACGCAGACCGTGGCCACCTGAAGCAGCAAGTGAGCGGGCTGGAGGGTGTGCAGGACGACCTGTTCTGGCTGACC
TTCGAGGGGAAGCCCCTGGAGGACCAGCTCCCGCTGGGGGAGTACGGCCTCAAGCCCCTGAGCACCGTGTTCATG
AATCTGCGCCTGCGGGGAGCGGGCACAGAGCCTGGCGGGCGGAGCTAAGGGCCTCCACCAGCATCCGAGCAGGAT
CAAGGGCCGGAATAAAGGCTGTTGTAAGAGAAT

621/2777
FIGURE 544

MGWDLTVKMLAGNEFQVSLSSMSVSELKAQITQKIGVHAFQQR LAVHPSGVALQDRVPLASQGLGPGSTVLLVV
DKCDEPLSILVRNNKGRSSTYEVRLTQTV AHLKQQVSGLEGVQDDLFWLTFEGKPLEDQLPLGEYGLKPLSTVFM
NLRLRGGGTEFGGRS

622/2777
FIGURE 545

GCTCTCATTACCTTCTGCCCATCACTTAATAAATAGCCAGCCAATTCATCAACATTCTGGTACACTGTTGGAGAG
ATGGAGACAGTCACACCAGCTGCCCCCTAGTGGGGCTCTTACTGTTTTCTTTTATTCCAAGCCAACCTATGCGAGATT
TGTGAGGTAAGTGAAGAAAACTACATCCGCCTAAAACCTCTGTTGAATACAATGATCCAGTCAAACTATAACAGG
GGAACCAGCGCTGTCAATGTTGTGTTGTCCCTCAAACCTGTTGGAATCCAGATCCAAACCCTGATGCAAAAGATG
ATCCAACAAATCAAATACAATGTGAAAAGCAGATTGTCAGATGTAAGCTCGGGAGAGCTTGCCTTGATTATACTG
GCTTTGGGAGTATGTCGTAACGCTGAGGAAAACCTTAATATATGATTACCACCTGATCGACAAGCTAGAAAATAAA
TTCCAAGCAGAAATTGAAAATATGGAAGCACACAATGGCACTCCCCTGACTAACTACTACCAGCTCAGCCTGGAC
GTTTTGGCCTTGTGTCTGTTCAATGGGAACCTACTCAACCGCCGAAGTTGTCAACCACTTCCTCCTGAAAATAAA
AACTATTATTTTGGTAGCCAGTTCTCAGTAGATACTGGTGCAATGGCTGTCTGGCTCTGACCTGTGTGAAGAAG
AGTCTAATAAATGGGCAGATCAAAGCAGATGAAGGCAGTTTAAAGAACATCAGTATTTATACAAAGTCACTGGTA
GAAAAGATTCTGTCTGAGAAAAAGAAAATGGTCTCATTGGAACACATTTAGCACAGGAGAAGCCATGCAGGCC
CTCTTTGTATCATCAGACTATTATAATGAAAATGACTGGAATTGCCAACAACTCTGAATACAGTGCTCACGGAA
ATTTCTCAAGGAGCATTCAAGCAATCCAAACGCTGCAGCCCAGGTCTTACCTGCCCTGATGGGAAAGACCTTCTTG
GATATTAAACAAAGACTCTTCTTGCGTCTCTGCTTCAGGTAACTTCAACATCTCCGCTGATGAGCCTATAACTGTG
ACACCTCCTGACTCACAATCATATATCTCCGTCAATTACTCTGTGAGAATCAATGAAACATATTTACCAATGTC
ACTGTGCTAAATGGTTCTGTCTTCCTCAGTGTGATGGAGAAAGCCCAGAAAATGAATGATACTATATTTGGTTTC
ACAATGGAGGAGCGCTCATGGGGGCCCTATATCACCTGTATTCAGGGCCTATGTGCCAACATAATGACAGAACC
TACTGGGAACCTCTGAGTGGAGGCGAACCCTGAGCCAAGGAGCTGGTAGTTACGTTGTCCGCAATGGAGAAAAC
TTGGAGGTTTCGCTGGAGCAAATACTAATAAAGCCCAAACCTTTCTCAGCTGCATAAAATCCATTTGCAGTGGAGTT
CCATGTTTATTGTCCTTATGCCTTCTTCTTCATTTATCCCAGTACGAGCAGGAGAGTTAATAACCTCCCCTTCTC
TCTCTACATGTTCAATAAAAGTTGTTGAAAGATTAACAACCTGT

623/2777
FIGURE 546

MRQSHQLPLVGLLLFSFIPSQLCEICEVSEENYIRLKPLLNMTIQSNYNRGTSAVNVVLSLKLVGIIQITLMQKM
IQQIKYNVKSRLSDVSSGELALIIILALGVCRNAEENLIYDYHLIDKLENKFQAEIENMEAHNGTPLTNYYQLSLD
VLALCLFNNGNYSTAEVVNHFTPENKNYYFGSQFSVDTGAMAVLALTCVKKSLINGQIKADEGSLKNISIYTKSLV
EKILSEKKENGLIGNTFSTGEAMQALFVSSDYNNENDWNCQQTNLNTVLTEISQGAFSNPNAAAQVLPALMGKTFL
DINKDSSCVSASGNFNISADEPITVTPPDSQSYISVNYSVRINETYFTNVTVLNGSVFLSVMEKAQKMNDTIFGF
TMEERSWGPYITCIQGLCANNNDRTYWELLSGGEPLSQGAGSYVVRNGENLEVRWSKY

624/2777
FIGURE 547

CACGTTCCCGTACCGAAGGGTTTCAGTACCAGCAGCCCGACCATCACGCGGCGGGATGTCGTGGTTGGCATTGAC
CTCGGCTTTCTCAACTGCTACATTGCTGTGCGGAGAAGTGGCGGCATCGAGACCATCGCCAATGAGTACAGCGAC
AGGTGTACCCCGGCCTGTATATCATTTGGGATCAAGAAGCTCGAGCCATTGGAAATGCAGCAAAGAGCCAGATAGTC
ACGAACGTAAGAAATACAATTCATGGCTTCAAAAAGCTTCATGGGCGATCATTGATGATCCCATTTGTGCAAAC
GAAAGGATCAGGCTTCCCTATGAACTGCAGAAAATGCCTAATGGAAGTGCAGGAGTTAAGGTGCGGTACTTAGAG
GAAGAGAGACCTTTTGCAATTGAGCAAGTTACTGGAATGCTGTTAGCCAAGCTTAAAGAGACTTCAGAAAATGCT
TTGAAGAAACCAGTGGCTGACTGTGTGATTTCAATTCCTAGCTTTTTTACTGATGCCGAGAGAAGATCTGTGATG
GCTGCAGCCCAGGTTGCAGGCTTAAATTGTTTAAAGTTGATGAATGAACTACTGCAGTTGCACTGGCGTATGGA
ATTTATAAACAGGATCTTCCCCCATTAGATGAGAAACCAAGAAATGTAGTATTTATTGATATGGGACATTCTGCC
TATCAGGTCTCGGTTTGTGCTTTTAAACAAAGGAAAACCTTAAAGTCTTGGCTACTACCTTTGATCCATATTTGGGT
GGCAGGAACCTTTGATGAGGCTTTAGTAGACTACTTCTGTGATGAGTTCAAGACCAAATATAAGATAAAATGTGAAA
GAAACTCTCGGGCCTTGTGCGTTTATATCAGGAATGTGAAAACTAAAGAAGCTAATGAGTGC AAAATGCATCA
GATCTTCCATTGAACATTGAGTGTTCATGAATGACCTTGATGTTTCTAGTAAAATGAACAGGGCTCAATTTGAA
CAACTGTGTGCTTCCCTTTTGGCCAGGGTTGAACCACCTTTAAAAGCAGTAATGGAACAAGCTAACTTACAACGT
GAAGACATTAGTAGTATAGAAATTGTAGGAGGAGCAACACGAATTCCTGCAGTGAAAGAACAATCACTAAATTC
TTTCTTAAAGACATAAGTACCACATTAAATGCTGATGAAGCTGTTGCAAGAGGATGTGCGTTACAGTGTGCGATT
CTCTCACCAGCATTTAAAGTGCCTGAATTTTCCATAACAGACCTTGTTCCTATTCAATCACATTAAGGTGGAAG
ACCTCTTTTGAAGATGGAAGTGGGGAATGTGAAGTTTCTGTAAGAACCATCCTGCCCCATTCTCAAAAGTCATT
ACTTTCCACAAGAAGGAACCATTTGAACTAGAAGCATTTTATACTAATTTACATGAAGTGCCTTATCCTGATGCA
AGAATTGGGAGCTTCACTATTGAGAAATGTTTTTCCACAGTCTGATGGTGATAGTTCCAAAGTGAAGGTTAAAGTT
CGTGTTAACATCCATGGAATCTTCAGTGTGGCTAGCGCATCAGTAATTGAGAAGCAAAATTTGGAAGGCGATCAC
AGTGATGCTCCAATGGAGACAGAAAACCTTCAATTTAAAAATGAAAACAAAGATAATATGGATAAAATGCAGGTTGAT
CAAGAAGAAGGGCATCAAAAATGTGATGCTGAACACACTCCAGAAGAGGAAATTGATCATAACAGGACCAAAACA
AAGTCAGCTGTCTCAGACAAAACAAGACCGATTAAATCAGACACTTAAAAAAGGAAAAGTCAAAAGTATTGATCTA
CCGATCCAGAGTAGCCTATGTAGACAACCTAGGCCAAGATCTTCTCAACAGCTACATTGAAAATGAGGGGAAGATG
ATCATGCAAGATAAGTTAGAGAAAGAAAGAAATGATGCTAAGAATGCCGTTGAAGAATATGTATATGATTTTAGA
GACAGGCTGGGCACGTCTATGAAAAATTCATCACTCCAGAAGACTTGAGTAACTGTCTGCAGTATTGGAAGAC
ACAGAAAATTGGCTTTATGAAGACGGAGAGGACCAACCTAAACAAGTTTATGTGGATAAGCTTCAAGAACTAAAG
AAATACGGCCAGCCTATTCAAATGAAGTACATGGAGCATGAAGAGAGACCAAAAGCCTTAAATGACTTGGGAAAA
AAGATCCAACCTTGTGATGAAAGTGATAGAAGCTTATAGAAACAAGGATGAAAGATATGATCATCTGGATCCTACT
GAAATGGAAGAGTTGAAAAATGTATCAGTGATGCCATGAGTTGGCTGAATAGTAAGATGAATGCACAGAACAAA
CTAAGTCTCACTCAAGATCCTGTGGTAAAAGTTTCAGAAATAGTAGCAAAGTCAAAGGAACTGGATAATTTCTGT
AACCCCATCATTTACAAGCCCCAAACCAAAAGCAGAAGTTCTGAAGACAAACCAAAAGCTAATAGTGAACGCAAT
GGCCCAATGGATGGACAGAGTGGAACCTGAACTAAATCAGATTCAACAAAAGACAGCTCACAGCATACTAAATCC
TCTGGAGAGATGGAAGTGGACTAAGTCTTAATTTTACCTTCACATTAATTCAAACCGTGCAAGTAACCACGGGGT
CCATCTTTTACATCTGGTACACACAACAGACGCTCAGTTGTTCTTAACCACTTTTGTCAATTTGTTTTTGGAGTAG
TTTTGAAAAGTGTTTTATATTGAGTGCACCTTCTGTTTCAATTTCCATTGCTGCTTATATGCAGCGTTAGCCGAATTA
GATTTACAAGACAATCTAAGCTTTCCGGATAATTTTATATATCAAACATACAGGATGGATACATAGTTGGCAACA
GTCTACCTTATTTAAAGCTTCTACTGGGATAAACCTCAATTCCTTTATTTCAGGAAAGGATACTTTATTGCATTAT
TGTTGCAGAAGCATAGATTTAATTGCATCTTTATTTTGA AAAACAAATGAAAATTGATGGGGTTTAAAGCTACAG
AGGCACTGACCTTTTTCTAGTTATTGTATTGCTACAATTTAAATATTAAAACAAATAAGAGCTTTCTC

625/2777
FIGURE 548

MSVVGIDLGFLNCYIAVARSGGIETIANEYSDRCTPACISLGSRTAIGNAAKSQIVTNVRNTIHGFKKLHGRSF
DDPIVQTERIRLPYELQKMPNGSAGVKVRYLEEERPF AIEQVTGMLLAKLKETSENALKKPVADCVISIPSFFTD
AERRSVMAAAQVAGLNCLRLMNETTAVALAYGIYKQDLPLDEKPRNVVFIDMGHSAYQVSVCAFNKGKLVLAT
TFDPYLGGRNFDEALVDYFCDEFKTKYKINVKENSRA LLRLYQECEKLKKLMSANASDLPLNIECFMNDLDVSSK
MNRAQFEQLCASLLARVEPPLKAVMEQANLQREDISSIEIVGGATRIPAVKEQITKFFLKDISTTLNADEAVARG
CALQCAILSPA FKVREFSITDLVPYSITLRWKTSFEDGSGECEVFCKNHPAPFSKVITFHKKEPFELEAFYTNLH
EVPYPDARIGSFTIQNVFPQSDGDSSKVVKVRVNIHGIFSVASASVIEKQNLGDHSDAPMETETSFKNENKDN
MDKMQVDQEEGHQKCHAEHTPEEEIDHTGAKTKSAVSDKQDRNLNQTLLKKGKVKSIDLP IQSSLCRQLGQDLLNSY
IENEGKMIMQDKLEKERNDAKNAVEEYVYDFRDLGTVYEKFITPEDLSKLSAVLEDTENWLYEDGEDQPKQVYV
DKLQELKKYGQPIQMKYMEHEERP KALNDLGKKIQ LVMKVIEAYRNKDERYDHLDPTEMEKVEKCI SDAMSWLNS
KMNAQNKLSLTQDPVVKVSEIVAKSKELDNFCNPIIYKPKPKAEVPEDKPKANSERNGPMDGQSGTETKSDSTKD
SSQHTKSSGEMEVD

626/2777
FIGURE 549

ATCCTGTCTGTCCGAACCCAGACACAAGTCTTCACTCCTTCCTGCGAGCCCTGAGGAAGCCTTCTTTCCCCAGAC
ATGGCCAACAAGGGTCCTTCCTATGGCATGAGCCGCGAAGTGCAGTCCAAAATCGAGAAGAAGTATGACGAGGAG
CTGGAGGAGCGGCTGGTGGAGTGGATCATAGTGCAGTGTGGCCCTGATGTGGGCCGCCAGACCGTGGGCCCTTG
GGCTTCCAGGTGTGGCTGAAGAATGGCGTGATTCTGAGCAAGCTGGTGAACAGCCTGTACCCCTGATGGCTCCAAG
CCGGTGAAGGTGCCCCGAGAACCCACCCCTCCATGGTCTTCAAGCAGATGGAGCAGGTGGCTCAGTTCCTGAAGGCG
GCTGAGGACTCTGGGGTCATCAAGACTGACATGTTCCAGACTGTTGACCTCTTTGAAGGCAAAGACATGGCAGCA
GTGCAGAGGACCCTGATGGCTTTGGGCAGCTTGGCAGTGACCAAGAATGATGGGCACTACCGTGGAGATCCCAAC
TGGTTTATGAAGAAAGCGCAGGAGCATAAGAGGGAATTCACAGAGAGCCAGCTGCAGGAGGGAAAGCATGTCATT
GGCCTTCAGATGGGCAGCAACAGAGGGGCCTCCAGGCCGGCATGACAGGCTACGGACGACCTCGGCAGATCATC
AGTTAGAGCGGAGAGGGGCTAGCCCTGAGCCCGGCGCTCCCCAGCTCCTTGGCTGCAGCCATCCCGCTTAGCCTG
CCTCACCCACACCCGTGTGGTACCTTCAGCCCTGGCCAAGCTTTGAGGCTCTGTCACTGAGCAATGGTAACTGCA
CCTGGGCAGCTCCTCCCTGTGCCCCAGCCTCAGCCCAACTTCTTACCCGAAAGCATCACTGCCTTGGCCCCCTCC
CTCCCGGCGGCCCCCATCACTCTACTGTCTCCTCCCTGGGCTAAGCAGGGGAGAAGCGGGCTGGGGGTAGCCTG
GATGTGGGCGAAGTCCACTGTCCTCCTTGGCGGCAAAAGCCCATTGAAGAAGAACAGCCCAGCCTGCCCCCTAT
CTTGTAACCTGGAATATTTTGGGGTTGGAACCTCTC

627/2777
FIGURE 550

MANKGPSYGMSREVQSKIEKKYDEELEERLVEWIIIVQCGPDVGRPD RGPLGFQVWLKNGVILSKLVNSLYPDGSK
PVKVPENPPSMVFKQMEQVAQFLKAAEDSGVIKTD MFQTVDLFEGKDMAAVQRTL MALGSLAVTKNDGHYRGDPN
WFMKKAQEHKREFTESQLQEGKHVIGLQMGSNRGASQAGMTGYGRPRQIIS

628/2777
FIGURE 551

GAATTCCGAGGGGTCGCTGTGCTGAGCGGCGGGACTGAGCTGTTGAGTTAGAGCCAACATGAGTGAGCGACAAGG
TGCTGGGCCAACCAATGGAAAAAGACAAGACATCTGGTGAAAATGATGGACAGAAGAAAGTTCAAGAAGAATTTGA
CATTGACATGGATGCACCAGAGACAGAACGTGCAGCGGTGGCCATTTCAGTCTCAGTTCAGAAAATTCCAGAAGAA
GAAGGCTGGGTCTCAGTCCTTAGTGGGAGAACCCCTCCTAGTCCACCTGAAAGCACCAAATTCAACCATCATCTG
TCAAGAAATTAAAAGAACAACCCCTAGAGAGAAGTCATCCACACACAATCCACACACGCATAGCAAACCTCCAA
TGCATGTACAGAAACCTGTGATATTTATACCCTTGTAGGAAGGTATAGACAATGGAATTGTGAGTAGCTTAATCT
CTATGTTTCTCTCCATTTTCATTCCTCCTGCAACTATTTTCCTTGATGTTGTAATAAAATGAAGTTACGATGAGA
AAAAAAAAAAAAAAAA

629/2777
FIGURE 552

MSERQGAGPTNGKDKTSGENDGQKKVQEEFDIDMDAPETERAAVAIQSQFRKFQKKKAGSQS

630/2777
FIGURE 553

GGCACCGATTTCGGGGCCTGCCCCGACTTCGCCGCACGCTGCAGAACCTCGCCCAGCGCCACC**ATG**CCCCGGCAG
CTCAGCGCGGGCGGCCGCGCTCTTCGCGTCCCTGGCCGTAATTTTGACGATGGCAGTCAAATGAGAGCAAAAGCA
TTTCAGAAACCAGAGATTATTCTCAACCTACTGCAGCAGCAACAGTACAGGACATAAAAAAACCCTGTCCAGCAA
CCAGCTAAGCAAGCACCTCACCAAACCTTAGCAGCAAGATTCATGGATGGTCATATCACCTTTCAAACAGCGGCC
ACAGTAAAAATTCCAACAACCTACCCAGCAACTACAAAAACACTGCAACCACCAGCCCAATTACCTACACCCCTG
GTCACAACCCAGGCCACACCCAACAACCTCACACACAGCTCCTCCAGTTACTGAAGTTACAGTCGGCCCTAGCTTA
GCCCCTTATTCACTGCCACCCACCATCACCCACAGCTCATAACAGCTGGAACCAGTTTCATCAACCGTCAGCCAC
ACAACCTGGGAACACCACTCAACCCAGTAACCAGACCACCCCTTCAGCAACTTTATCGATAGCACTGCACAAAAGC
ACAACCGGTCAGAAGCCTGATCAACCCACCCATGCCCCAGGAACAACGGCAGCTGCCCACAATACCACCCGCACA
GCTGCACCTGCCTCCACGGTTCTTGGGCCACCCCTGCACCTCAGCCATCGTCAGTCAAGACTGGAATTTATCAG
GTTCTAAACGGAAGCAGACTCTGTATAAAAGCAGAGATGGGGATACAGCTGATTGTTCAAGACAAGGAGTCGGTT
TTTTACCTCGGAGATACTTCAACATCGACCCCAACGCAACGCAAGCCTCTGGGAACCTGTGGCACCCGAAAATCC
AACCTTCTGTTGAATTTTCAGGGCGGATTTGTGAATCTCACATTTACCAAGGATGAAGAATCATATTATATCAGT
GAAGTGGGAGCCTATTTGACCGTCTCAGATCCAGAGACAGTTTACCAAGGAATCAAACATGCGGTGGTGATGTTT
CAGACAGCAGTCGGGCATTCCCTCAAGTGCGTGAGTGAACAGAGCCTCCAGTTGTCAGCCCACCTGCAGGTGAAA
ACAACCGATGTCCAACCTCAAGCCTTTGATTTTGAAGATGACCACTTTGGAAATGTGGATGAGTGCTCGTCTGAC
TACACAATTGTGCTTCTGTGATTGGGGCCATCGTGTTGGTCTCTGCCTTATGGGTATGGGTGTCTATAAAATC
CGCTAAGGTGTCAATCATCTGGATACCAGAGAATCT**TA**ATTGTTGCCCGGGGGGAATGAAAATAATGGAATTTAG
AGAACTCTTTTCATCCCTTCCAGGATGGATGTTGGGAAATTCCCTCAGAGTGTGGGTCTTCAAACAATGTAAACC
ACCATCTTCTATTCAAATGAAGTGAGTCATGTGTGATTTAAGTTTCAGGCAGCACATCAATTTCTAAATACTTTTT
GTTTATTTTATGAAAGATATAGTGAGCTGTTTATTTTCTAGTTTCCCTTTAGAATATTTTAGCCACTCAAAGTCAA
CATTGAGATATGTTGAATTAACATAATATATGTAAAGTAGAATAAGCCTTCAAATATATAACCAAGGGTCAATT
GTAATAATACTACTGTGTGTGCATTGAAGATTTTATTTTACCCTTGATCTTAACAAAGCCTTTGCTTTGTATC
AAATGGACTTTTCAGTGCTTTTACTATCTGTGTTTTATGGTTTCATGTAACATACATATTCCTGGTGTAGCACTTA
ACTCCTTTTCCACTTTAAATTTGTTTTTGTGTTTTTGTAGACGGAGTTTCACTCTTGTACCCAGGCTGGAGTACAG
TGGCAGGATCTCGGCTTATGGCAACCTCCGCCTCCCGGGTTCAAGTGATTCTCCTGCTTCAGCTTCCCGAGTAGC
TGGGATTACAGGCACACACTACCACGCCTGGCTAATTTTTGTATTTTTATTATAGACGGGTTTACCATGTTGGC
CAGACTGGTCTTGAACCTTTGACCTCAGGTGATCCACCCACCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATG
AGCCATTGCGCCCGGCCCTTAAATGTTTTTTTAAATCATCAAAAAGAACAACATATCTCAGGTTGTCTAAGTGTTT
TTATGTAAACCAACAAAAGAACAATCAGCTTATATTTTTTATCTTGATGACTCCTGCTCCAGAATTGCTAGA
CTAAGAATTAGGTGGCTACAGATGGTAGAACTAAACAATAAGCAAGAGACAATAATAATGGCCCTTAATTATTAA
CAAAGTGCCAGAGTCTAGGCTAAGCACTTTATCTATATCTCATTTTCATTCTCACAACCTTATAAGTGAATGAGTAA
ACTGAGACTTAAGGGAACCTGAATCACTTAAATGTCACCTGGCTAACTGATGGCAGAGCCAGAGCTTGAATTCATG
TTGGTCTGACATCAAGGTCTTTGGTCTTCTCCCTACACCAAGTTACCTACAAGAACAATGACACCACACTCTGCC
TGAAGGCTCACACCTCATACCAGCATACGCTCACCTTACAGGGAAATGGGTTTATCCAGGATCATGAGACATTAG
GGTAGATGAAAGGAGAGCTTTGCAGATAACAAAATAGCCTATCCTTAATAAATCCTCCACTCTCTGGAAGGAGAC
TGAGGGGCTTTGTAAACATTAGTCAGTTGCTCATTTTTATGGGATTGCTTAGCTGGGCTGTAAAGATGAAGGCA
TCAAATAAACTCAAAGTATTTTTAAATTTTTTGTATAATAGAGAACTTCGCTAACCAACTGTTCTTTCTTGAGT
GTATAGCCCCATCTTGTGGTAACTTGCTGCTTCTGCACCTCATATCCATATTTCTATTGTTCACTTTATTCTGT
AGAGCAGCCTGCCAAGAATTTTATTTCTGCTGTTTTTTTGTCTGTAAAGAAAGGAACCTAAGTCAGGATGTTAAC
AGAAAAGTCCACATAACCCTAGAATTCTTAGTCAAGGAATAATTCAAGTCAGCCTAGAGACCATGTTGACTTTCC
TCATGTGTTTCTTATGACTCAGTAAGTTGGCAAGGTCCTGACTTTAGTCTTAATAAAACATTGAATTGTAGTAA
AGGTTTTTGCAATAAAAACCTTACTTTGG

631/2777
FIGURE 554

MPRQLSAAAAALFASLAVILHDGSQMRKAFPETRDYSQPTAAATVQDIKKPVQQPAKQAPHQTLAARFMDGHITF
QTAATVKIPTTTTPATTKNTATTSPITYTLVTTQATPNNSHTAPPVTEVTVGPSLAPYSLPPTITPPAHTAGTSSS
TVSHTTGNTTQPSNQTTLPATLSIALHKSTTGQKPDQPTHAPGTTAAAHNTTRTAAPASTVPGPTLAPQPSSVKT
GIYQVLNGSRLCIKAEMGIQLIVQDKESVFSRRYFNIDPNATQASGNCGTRKSNLLLNFQGGFVNLTFTKDEES
YYISEVGAYLTVSDPETVYQGIKHAVVMFQTAVGHSEFKCVSEQSLQLSAHLQVKTTDVQLQAFDFEDDHFGNVDE
CSSDYTIVLPVIGAIIVVGLCLMGMGVYKIRLRQCSSGYQRI

632/2777
FIGURE 555A

GCGGGGAGCCGGCGGTTATCTGGGCGGCGGAGCGCTCACAATGTGGCAGGAGACAGAAAAGATAAGATGCTCCCA
AGTCCCTTGACAGCTCTCTTCAGAAGAAAAATCACTAGTGCTCTGCTCTTGCCATAATACCAAACCTTTTTGACTC
ATGCTTTGGTGCTGCAACACTGGAAGAATTGCACACAGTTTTCCAGGAATATCTTTTTTTCATTTGAGTGATTCTT
TGTGGATGAGAAAAGATTGAGTCTTAATAATTACCTTGTTTTAAAGCTATTTCTTTATAGTCTGAACTGTTTAA
TAAATTGGGCCACTTACCAATGAGCCACACAGCCAGTTCTTGTCAGGAGCTGGTTGAAAACGTGTGCTGTGCATGT
AGCAGGAATGGCACAAGAAGATAGCCGTCGTGGTCAAGTGCCATCTTCCTTTTATCATGGTGCCAACCAAGAAGT
TGACCTGTCCACCAAAGTGTACAAAAGGGAATCAGGAAGTCCTTATTCTGTGTTAGTGGACACCAAGATGAGCAA
ACCGCATCTCCATGAAACAGAAGAACAGCCATATTTTCAGGGAGACAAGAGCAGTGTCTGACGTGCATGCTGTTAA
GGAAGACCGGGGAGAATTCTGATGACACAGAGGAGGAAGAGGAAGAAGTCTCTTACAAAAGGGAGCAGATCATAGT
GGAGGTAAACCTTAATAATCAAACATTAAATGTATCTAAAGGGGAAAAGGGTGTCTCTTCTCAGTCCAAAGAGAC
TCCTGTTCTTAAGACAAGCAGTGAGGAGGAAGAGGAAGAGAGTGAGGAAGAGGGCCACAGATGACAGCAATGACTA
TGGAGAGAATGAAAAGCAGAAGAAAAAGGAGAAGATAGTAGAGAAAGTCAGCGTTACACAAAGGAGAACCAGGAG
AGCTGCCTCTGTTGCGCAGCTACCACTTCCCCTACTCCAGAACTACAAGAGGTCGTAGGAAGAGTGTAGAGCC
ACCTAAGCGTAAGAAGCGGGCCACAAAGGAGCCCAAAGCACCAGTCCAGAAAGCTAAGTGTGAAGAGAAAGAGAC
TCTGACCTGTGAGAAGTGCCCCAGGGTATTTAACACTCGCTGGTACCTGGAGAAGCACATGAACGTTACTCATAG
GCGCATGCAGATTTGTGATAAATGTGGCAAGAAGTTTGTCTGGAAAGTGAGCTGTCCCTTACCAGCAAACAGA
CTGTGAAAAAACATTAGTGTGTTTCTGTAAACAAATCGTTCAAGAACTCTGGTCCCTTCATGAACATATCAA
GATCGTCCATGGATATGCAGAAAAGAAATTTTCTGTGAAATTTGTGAGAAGAAATCTATACCATGGCTCATGT
GCGGAAACACATGGTTGCACACACAAAAGACATGCCATTTACATGCGAAACCTGTGGAAAATCATTCAAACGCAG
TATGTCACTCAAGGTGCACTCCTTGACGATTCTGGAGAGAAGCCCTTTAGATGCGAGAAGTGTGACGAAAGGTT
TCAGTACAAGTACCAGCTACGCTCCACATGAGCATTATATTGGGCACAAACAGTTTATGTGCCAGTGGTGTGG
CAAGGATTTCAACATGAAGCAGTACTTCGACGAACACATGAAAACACACACTGGAGAGAAACCTTTTATCTGTGA
AATCTGTGGCAAAGCTTACCAGCCGCCCCAACATGAAGAGACACCGCAGAACTCACACAGGCGAGAAGCCCTA
TCCATGTGATGTGTGTGGCCAGCGGTTCCGCTTCTCGAACATGCTTAAGGCCCAAGGAGAAGTGCTTTTCGGGT
GACCAGCCCCGTGAATGTGCCACCTGCTGTCCAGATCCCACTTACAACCTCCCCAGCCACCCAGTTTCTTCTGT
GGTGAACACAGCCACAACCCCAACCCCTCCAATCAATATGAATCCTGTAAGCACTCTTCCCCCTCGGCCCCATCCC
CCACCCCTTCTCACACCTGCACATCCACCCACACCCCTCACCACCCACACCACCTTCCCATCCCTCCAGTCCCTCA
CCTCCCGCCACCTCCAGCTCTCTTTAAGAGTGAGCCTTTAAATCATAGAGGCCAGAGTGAGGACAACCTTTCTGCG
GCACCTGGCAGAGAAGAAGTTCAGCACAGCATCATTAACATCCGTCTCCTTAGTGTGTTCTCCAGGAGACACG
TCCCCATGTGTGAGCGTGCACAGAGGGAGTCGGTGAGCATTTCCTTAGTTCTCAGACTCTCCTCCGCTCTACCA
AGAGCTTCGCCAGTGTCACTGAATCAACAGATCCAAGGGAATGAACAAGAAGACTACCTTGAGCTCACAGAGGGA
CTGTCACTCTAAACCAGGGGAACCACTGAATAAAGCCCAATTTGCTTGCAATTTCTGATGACTTTTATAAGTTTC
AAATACTCAGACTTGTGGAATTTTATAATTTATATCAGCTGATGAGGTATGCTTGCTTTTATATCCAGACTTC
TCCTCAAAGAGGGGATAGGCCTGGTTTCTTTGTACTAATCGGGAAGGCTGTGAGATTAATCCAGAGCATTAAAT
GTATCACTGTGTATGGTAAGGAATCTTTTCAGCTTTTGGTGCCAGCTACAGAGTTGAGCTGGCCATGTTTCACA
GTATATCAAGCATTATAGAGAAAGACAGAAATTTCTTCTTTGTGTAGCTCTCCTAACGCACTCTTTATTTTACT
ACAGAAATTTATTTAGAGTTTTTGTATAGACTTCTTTGGTAGTCTGTTTCTAAAATGAAATGTATTTCAATAAGC
AGTGTAATTTTTTTCAGTGTAGCTGAACCTATGTTGTAAATAGAAAAAATTTTTATAATCATCAAAATGTGATT
CTTAAAGATGCATATAACTTCTATAATCAAAGCTATTCTTACATCCGTACAACCTCAAAGGTGCTTCAGAGACT
AGATGTATCTGAGAGGGTCTCCAGACCAGGTTACTGCAAAAATGAGGTTTTGCTTTTCAGGATTTGGCGTAAATAC
TTGGTAGTTTTGACATCTCTGCTTAACACTCAAGAGAGGCTCCCTAATGTGCTCCTGTCTCCATGTTCTGCTTG
GCTTCGTTAGTGCATTACATGAAATGATTGTCAGGGGATGGGGCCTTTTCAGGGGAAGTCACCTAAAGCTTGCAT
GTTTTGAAAATTTGAATAAGGCTGTTTGTGCTGACAGGAGGAGGAAGTAGTGAGATCATTTCATCTCAGTCACGTC
TGTTTTCTCACTTCCCTTAGGAATTTGTGTTGATGTTTAACTTTTATGGGATGACAAATTGAAATCGCTCATTTTGA
GGTTGCTTTATTTTTCTAGAATTGTTATAAGAAGCTAAATAGTAACTTAAATACACAAACATGACATTGCTGA
TAGTGGCTGAGAAATTCAGATGAGAAGACAAATTGGTTATGAATTTTGAAATATCTATTATATGTAATGTGGA
TATGTTACAAACCTTGAGCTATTTTAAACACAGTTTAAATATAGTGAGGGAAAACCTTAAGTTTTACTGCCCTGT
CCTCTGCAAATTATGTAATACCAGCATTCTTAGGCGATAAAGAGAGCAGCACCTCTAGTACCTTTAGGCAGATTA

633/2777
FIGURE 555B

CTTTTTCAAGTTTGGGGAACCTTCAAAAGACCATAATCAACCAGGAGCTTATTATAGGAAAGGCTGAACAGAAGGG
CTAGTGATTGATTACACTTAACAGATCATATTTATCCAGACTCAGTATAGCTTAAAATTTTGTATTTCTTTATC
TGAGAGAAGTGAAGTTCCAGGCTAAATCACTTACCTCCCACCCCTCTCCAATTTTTTTTTTAAAGAGACAAGGTC
TTGCTATGTTGCCAGGCTAGAGTGCAGTGGCTATTACAGGTGCAGTTATAGCACACTACAGCCTCCAACCTCTT
GGGTTCAAGCAACCCTGCCTCAGCTAACCAAGTAGCTGGGACTACAGGTGCATGCTACCATGCCAGTCCATTTT
TTAATCTTGAAATTTCTTCATTTTCTTTCTTCGGTTTCTTAAAATCTTTGCCTGAATCAGAACGCTGGCTTTTA
TTTATTTTTTTATTTTTAATATTAAATGTGCAGATATGCTTCGAGCACTTTTCTAACTAATGAGCTCTGTGGTAA
GAAAAATGAACCTCTTCAATTGAGATTAAAGTCCATATTTTTCAAACATCACGTTCTCTATTGGCTTTTGGTTT
AGTGTCTTAAATTTTCTCCTTCTGATTTTGCCTGTCTTATATAATGAGCATAGGAAAATTTTGGAAATGAGGCAG
AAAAGTATATCAAGACATACTTCCCTGGTTTTGGATGTAAGTTTTAAAGAATGGTATTTTTAATATTTGTACACAT
TCTTTGAGCACCCAGGTACCCAAGCCAATAAGGAAAGTTAATTCCTTGCAATATGACTGTTATATCTTTAGTGGTT
GTCTCCCTCTCCCTCCACAGTCTCCTTGGCATTCCATGACAAGTTTGTCAACCTACACTTTTATATAGACATGTC
ATTATTTTCATGGTCAAGCCTGTAGTATTAAAATGATTTTTTTAAAAGATGTAACTGTGCTTAGTTAATTGGTTA
TATTTTGTCTGTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGGCAGAGTCTTGTCTGTGCTGGCTGGGCTGGAGTG
CAGTGGCGTGATCTTGGCTCAGTGCAACCCCGCCCCCGGGTTCAAGTGATTCTCCTGCCTCAGCCTCCCGAGT
AGCTGGAATTACAGGCATGCGCCAGCACGCCCCGGCTAAGTTTTGTATTTTGGCAGAGATGGGGTTTACCATAT
TGGCCAGGCTGGTCTCAAACCTCTGACCTTGTGATCCGCCCACCTCAGCCTCCGAAAGTGCTGGGATTACAGGCG
TGAGCCACCACGTCCAACCTGCCTTATTTTGTCTGAATAAATTTACAGTATTGGGCAGCAATTCTGGATTCTAGA
CTTGAGACCACAGAATCAACCATTTTCATGAGGTTGTACTGTAATTATACACTGGAATATTCAGGTAGTCATCTTT
GATTTTTTCATTCAAGTAAATATAGCCATAAGAAAATATCTGCTATACAGGAAAACCAGTATTAAGCAAATACCAC
CATCCTTAACAGAAACAAAAATATATATATATATTATTTTTTAAAAATTAGCATTGTCATACAGTACAATTCTTAG
TGAAGTGTATTGTGGAACAATTTAGAACTTCCTTTTTTTCCCTAGATTAAAGGATACTTTCCTTGACTTGAGAC
TTGTGGTCTTCAGGAAAACCTACTCAGAATATAATGACTCCTCATCAGTATCATATTGTATATAAATAATGAAATG
CATTAAGAATATTCAACATTGAACCCAGGAGGCGGAGCTTGCAGTGAGCCGAGATTGCGCCACTGCGCTCCAG
CCTGGGCAACAGAGCGAGACTCCATCTC

634/2777
FIGURE 556

MSHTASSCQELVENC AVHVAGMAQEDSRRGQVPSSFYHGANQELDLSTKVYKRESGSPYSVLVDTKMSKPHLHET
EEQPYFRETRAVSDVHAVKEDRENSDDTEEEEEEEVSYKREQIIVEVNLNNQTLNVSKGEKGVSSQSKETPVLKTS
SEEEEEEESEEEATDDSDNDYGENEKQKKKEKIVEKVSVTQRRTRRAASVAAATTSPTPRTTTRGRRKSVEPPKRKKR
ATKEPKAPVQKAKCEEKETLTCEKCPRVFNTRWYLEKHMNVTHRRMQICDKCGKKFVLESELSLHQQTDCENIQ
CVSCNKSFKKLWSLHEHIKIVHGYAEKKFSCEICEKKFYTMHVVRKHMVAHTKDMPTCETCGKSFKRSM SLKVH
SLQHSGEKPFRCENC DERFQYKYQLRSHMSIHIGHKQFMCQWCGKDFNMKQYFDEHMKHTHTGEKPFICEICGKSF
TSRPNMKRHRRTHTGEKPYPCDVCGQRFRFSNMLKAHKEKCFRVTSPVNVPPAVQIPLTTSPATPVPSVNTATT
PTPPINMNPVSTLPPRP IPHPF SHLHIHPHPHHPHLP IPPVPHLPPPPALFKSEPLNHRGQSEDNFLRH LAEKN
SSAQHH

635/2777
FIGURE 557

TTTCTTAGACATTAACATGCAGACGGCTGGCAGGATAGAAGCAGCGGCTCACTTGGACTTTTTTACCAGGGAAAT
CAGAGACAATGATGGGGCTCTTCCCCAGAACTACAGGGGCTCTGGCCATCTTCGTGGTGGTCATATTGGTTTCATG
GAGAATTGCGAATAGAGACTAAAGGTCAATATGATGAAGAAGAGATGACTATGCAACAAGCTAAAAGAAGGCCAAA
AACGTGAATGGGTGAAATTTGCCAAACCCCTGCAGAGAAGGAGAAGATAACTCAAAAAGAAACCCAATTGCCAAGA
TTACTTCAGATTACCAAGCAACCCAGAAAATCACCTACCGAATCTCTGGAGTGGGAATCGATCAGCCGCCTTTTG
GAATCTTTGTTGTTGACAAAAACACTGGAGATATTAACATAACAGCTATAGTCGACCGGGAGGAACTCCAAGCT
TCCTGATCACATGTCGGGCTCTAAATGCCCAAGGACTAGATGTAGAGAAACCACTTATACTAACGGTTAAATTT
TGGATATTAATGATAATCCTCCAGTATTTTCAACAATAATTTTCATGGGTGAAATTGAAGAAAATAGTGCCTCAA
ACTCACTGGTGATGATACTAAATGCCACAGATGCAGATGAACCAAAACCACTTGAATTCATAAATTGCCTTCAAAA
TTGTCTCTCAGGAACCAGCAGGCACACCCATGTTTCTCTAAGCAGAAACACTGGGGAAGTCCGTACTTTTGACCA
ATTCTCTTGACCGAGAGCAAGCTAGCAGCTATCGTCTGGTTGTGAGTGGTGACAGACAAAGATGGAGAAGGACTAT
CAACTCAATGTGAATGTAATATTAAAGTGAAAGATGTCAACGATAACTTCCCAATGTTTAGAGACTCTCAGTATT
CAGCACGTATTGAAGAAAATATTTTAAAGTTCTGAATTACTTCGATTTCAAGTAACAGATTGGATGAAGAGTACA
CAGATAATTGGCTTGAGTATATTTCTTTACCTCTGGGAATGAAGGAAATTGGTTTGAAATACAACTGATCCTA
GAACTAATGAAGGCATCCTGAAAGTGGTGAAGGCTCTAGATTATGAACAACCTACAAAGCGTGAACTTAGTATTG
CTGTCAAAAACAAAGCTGAATTTACCAATCAGTTATCTCTCGATACCGAGTTCAGTCAACCCCAGTCACAATTC
AGGTAATAAATGTAAGAGAAGGAATTGCATTCCGTCTCTGCTTCCAAGACATTTACTGTGCAAAAAGGCATAAGTA
GCAAAAATTTGGTGGATTATATCCTGGGAACATATCAAGCCATCGATGAGGACACTAACAAAGCTGCCTCAAAATG
TCAATATGTCATGGGACGTAACGATGGTGGATACCTAATGATTGATTCAAAAACCTGCTGAAATCAAATTTGTCA
AAAATATGAACCGAGATTCTACTTTTCATAGTTAAACAAAACAATCACAGCTGAGGTTCTGGCCATAGATGAATACA
CGGGTAAAACCTTCTACAGGCACGGTATATGTTAGAGTACCCGATTTCAATGACAATTGTCCAACAGCTGTCTCTCG
AAAAGATGCAGTTTGCAGTTCTTCACCTTCCGTGGTTGTCTCCGCTAGAACACTGAATAATAGATACACTGGCC
CCTATACATTTGCACTGGAAGATCAACCTGTAAAGTTGCCTGCCGTATGGAGTATCACAACCCCTCAATGCTACCT
CGGCCCTCTCAGAGCCCAGGAACAGATACCTCCTGGAGTATACCACATCTCCCTGGTACTTACAGACAGTCAGA
ACAATCGGTGTGAGATGCCACGCAGCTTGACACTGGAAGTCTGTGAGTGTGACAACAGGGGCATCTGTGGAACCT
CTTACCCAACCACAAGCCCTGGGACCAGGTATGGCAGGCCGCACTCAGGGAGGCTGGGGCCTGCCGCCATCGGCC
TGCTGCTCCTTGGTCTCCTGCTGCTGCTGTTGGCCCCCTTCTGCTGTTGACCTGTGACTGTGGGGCAGGTTCTA
CTGGGGGAGTGACAGGTGGTTTTATCCAGTTTCTGATGGCTCAGAAGGAACAATTCATCAGTGGGGAATTGAAG
GAGCCCATCTGAAGACAAGGAAATCACAAATATTTGTGTGCCTCTGTAAACAGCCAATGGAGCCGATTTTCATGG
AAAGTTCTGAAGTTTGTACAAATACGTATGCCAGAGGCACAGCGGTGGAAGGCACTTCAGGAATGGAATGACCA
CTAAGCTTGGAGCAGCCACTGAATCTGGAGGTGCTGCAGGCTTTGCAACAGGGACAGTGTGAGGAGCTGCTTCAG
GATTTCGGAGCAGCCACTGGAGTTGGCATCTGTTTCTCAGGGCAGTCTGGAACCATGAGAACAAGGCATTCCACTG
GAGGAACCAATAAGGACTACGCTGATGGGGCGATAAGCATGAATTTCTGGAATCCTACTTTTCTCAGAAAGCAT
TTGCCTGTGCGGAGGAAGACGATGGCCAGGAAGCAAATGACTGCTTGTGATCTATGATAATGAAGGCGCAGATG
CCACTGGTTCTCCTGTGGGCTCCGTGGGTGTTGCAGTTTTATTGCTGATGACCTGGATGACAGCTTCTTGGACT
CACTTGGACCCAAATTTAAAAAACTTGACAGAGATAAGCCTTGGTGTGATGGTGAAGGCAAAGAAGTTCAGCCAC
CCTCTAAAGACAGCGTTATGGGATTGAATCCTGTGGCCATCCCATAGAAGTCCAGCAGACAGGATTTGTAAAGT
GCCAGACTTTGTGAGGAAGTCAAGGAGCTTCTGCTTTGTCCGCTCTGGGTCTGTCCAGCCAGCTGTTTCCATCC
CTGACCTCTGCAGCATGGTAACTATTTAGTAACGGAGACTTACTCGGCTTCTGGTTCCCTCGTGCAACCTTCCA
CTGCAGGCTTTGATCCACTTCTCACACAAAATGTGATAGTGACAGAAAGGGTGATCTGTCCCATTTCAGTGTTTC
CTGGCAACCTAGCTGGCCCAACGCAGCTACGAGGGTCACATACTATGCTCTGTACAGAGGATCCTTGTCTCCGTC
TAATATGACAGCAATGAGCTGGAATACCACACTGACCAATCTGGATCTTTGGACTAAAGTATTCAAAATAGCAT
AGCAAAGCTCACTGTATTGGGCTAATAATTTGGCACTTATTAGCTTCTCTCATAAACTGATCACGATTATAAATT
AAATGTTTGGGTTCATACCCCAAAAGCAATATGTTGTCACTCCTAATTCTCAAGTACTATTCAAATTTGTAGTAA
TCTTAAAGTTTTTCAAAACCCATAAATCATATTCG

636/2777
FIGURE 558

MMGLFPRTTGALAI FVVVILVHGELRIETKGQYDEEEMTMQQAKRRQKREWVKFAKPCREGEDNSKRNP IAKITS
DYQATQKITYRISGVGIDQPPFGIFVVDKNTGDINITAIVDREETPSFLITCRALNAQGLDVEKPLILTVKILDI
NDNPPVFSQQIFMGEIEENSASNSLVMILNATDADEPNHLNSKIAFKIVSQEPAGTPMFLLSRNTGEVRTLTNSL
DREQASSYRLVVGADKDGEGLSTQCECNIVKVDVNDNPFMRDSQYSARIEENILSSELLRFQVTDLDEEYTDN
WLAVYFFTSGNEGNWFEIQTDPRTNEGILKVVKALDYEQLQSVKLSIAVKNKAEFHQSVISRYRVQSTPVTIQVI
NVREGIAFRPASKTFTVQKGISSKKLVDYILGTIYQAIDEDTNKAASNVKYVMGRNDGGYLMIDSKTAEIKFVKNM
NRDSTFIVNKTITAEVLAIDEYTGKTSTGTIVYVRVPDFNDNCPTAVLEKDAVCSSSPSVVVSARTLNNRYTGPLYT
FALEDQPVKLPVWSITTLNATSALLRAQEQIPPGVYHISLVLTDSQNNRCEMPRSLTLEVCQCDNRGICGTSYP
TTSPGTRYGRPHSGRLGPAAIGLLLLLGLLLLLLAPLLLLLTCDCGAGSTGGVTGGFIPVPDGSEGTIHQWGIEGAH
PEDKEITNICVPPVTANGADFMESSEVCTNTYARGTAVEGTSGMEMTTKLGAATESGGAAGFATGTVSGAASGFG
AATGVGICSSGQSGTMTRHSTGGTNKDYADGAISMNFLDSYFSQKAFACAEEDDGQEANDCLLIYDNEGADATG
SPVGSVGCCSFIADDLDDSLDSLGPKFKKLAEISLGVDGEGKEVQPPSKDSGYGIESCGHPIEVQQTGFVKCQT
LSGSQGASALSASGSVQPAVSIPDPLQHGNYLVTTETYSASGSLVQPSTAGFDPLLTQNVIVTERVICPISSVPGN
LAGPTQLRGSHTMLCTEDPCSRLI

637/2777
FIGURE 559

GGCACGAGGAGCGTTTCGTTTGGACTTCTCGACTTGAGTGCCCCGCTCCTTCGCCGCCGCTCTGCAGTCCTCAG
CGCAGTTATGCCAGTTCTTCCCCTGTGGGGACACGACCACGGAGGAATCCTTGCTTCAGGGACTCGGGACCCCT
GCTGGACCCCTTCCCTCGGGTTTAGGGGATGTGGGGACCAGGAGAAAGTCAGGATCCCTAAGAGTCTTCCCTGCCT
GGATGGATGAGTGGCTTCTTCTCCACCTAGATTCTTTCCACAGGAGCCAGCATACTTCTGAACATGGAGAGTGT
TGTTCCGCCGCTGCCATTCTTATCCCGAGTCCCCAGGCCTTTCTGCAGAAAGCAGGCAAATCTCTGTTGTTCTA
TGCCCAAACTGCCCAAGATGATGGAAGTTGGGGCCAAGCCAGCCCCCTCGGGCATGTCCACTGCAGCAGTACA
CTACCAACAGATCAAAGAAACCCCTCCGGCCAGTGAGAAAGACAAAACCTGCTAAGGCCAAGGTCCAACAGACTCC
TGATGGATCCCAGCAGAGTCCAGATGGCACACAGCTTCCGTCTGGACACCCCTTGCCTGCCACAAGCCAGGGCAC
TGCAAGCAAATGCCCTTTCCTGGCAGCACAGATGAATCAGAGAGGCAGCAGTGTCTTCTGCAAAGCCAGTCTTGA
GCTTCAGGAGGATGTGCAGGAAATGAATGCCGTGAGGAAAGAGGTTGCTGAAACCTCAGCAGGCCCCAGTGTGGT
TAGTGTGAAAACCGATGGAGGGGATCCCAGTGGACTGCTGAAGAACTTCCAGGACATTATGCAAAAGCAAAGACC
AGAAAGAGTGTCTCATCTTCTTCAAGATAACTTGCCAAAATCTGTTTCCACTTTTCAGTATGATCGTTTCTTGA
GAAAAAATTGATGAGAAAAAGAATGACCACACCTATCGAGTTTTTAAAACTGTGAACCGCGCAGCACACATCTT
CCCCATGGCAGATGACTATTAGACTCCCTCATCACCAAAAGCAAGTGTGAGTCTGGTGCAGTAATGACTACCT
AGGAATGAGTCGCCACCCACGGGTGTGTGGGGCAGTTATGGACACTTTGAAACAACATGGTGTGTTGGGCAGGTGG
TACTAGAAATATTTCTGGAAGTAGTAAATTCATGTGGACTTAGAGCGGGAGCTGGCAGACCTCCATGGGAAAGA
TGCCGCACTCTTGTTTTCTCGTGCTTTGTGGCCAATGACTCAACCCCTTCCACCCTGGCTAAGATGATGCCAGG
CTGTGAGATTTACTCTGATTCTGGGAACCATGCCTCCATGATCCAAGGGATTGCAAACAGCCGAGTGCCAAAGTA
CATCTTCCGCCACAATGATGTCAGCCACCTCAGAGAACTGCTGCAAAGATCTGACCCCTCAGTCCCCAAGATTGT
GGCATTGTAAACTGTCCATTCAATGGATGGGGCGGTGTGCCCACTGGGAAGAGCTGTGTGATGTGGCCCATGAGTT
TGGAGCAATCACCTTCGTGGATGAGGTCCACGCAGTGGGGCTTTATGGGGCTCGAGGCGGAGGGATTGGGGATCG
GGATGGAGTCATGCCAAAATGGACATCATTTCTGGAACACTTGGCAAAGCCTTTGGTTGTGTTGGAGGGTACAT
CGCCAGCACGAGTTCTCTGATTGACACCGTACGGTCCATGCTGCTGGCTTCATCTTACCACCTCTCTGCCACC
CATGCTGCTGGCTGGAGCCCTGGAGTCTGTGCGGATCCTGAAGAGCGCTGAGGGACGGGTGCTTCGCCGCCAGCA
CCAGCGCAACGTCAAACCTCATGAGACAGATGCTAATGGATGCCGGCCTCCCTGTTGTCCACTGCCCCAGCCACAT
CATCCCTGTGCGGGTTGCAGATGCTGCTAAAAACACAGAAGTCTGTGATGAACTAATGAGCAGACATAACATCTA
CGTGCAAGCAATCAATTACCCCTACGGTGCCCCGGGGAGAAGAGCTCCTACGGATTGCCCCCACCCCTCACCACAC
ACCCAGATGATGAACTACTTCTTGAGAATCTGCTAGTCACATGGAAGCAAGTGGGGCTGGAAGTGAAGCCTCA
TTCCTCAGCTGAGTGCAACTTCTGCAGGAGGCCACTGCATTTTGAAGTGATGAGTGAAAGAGAGAAGTCCATTT
CTCAGGCTTGAGCAAGTTGGTATCTGCTCAGGCCTGAGCATGACCTCAATTATTTCACTTAACCCAGGCCATTA
TCATATCCAGATGGTCTTCAGAGTTGTCTTTATATGTGAATTAAGTTATATTAAATTTTAATCTATAGTAAAAAC
ATAGTCCTGGAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

638/2777
FIGURE 560

MESVVRRCPFLSRVPQAFLOKAGKSLLFYAQNCPKMMEVGAKPAPRALSTAAVHYQQIKETPPASEKDKTAKAKV
QQTPDGSQQSPDGTQLPSGHPLPATSQGTASKCPFLAAQMNQRGSSVFCASLELQEDVQEMNAVRKEVAETSAG
PSVVSVKTDGGDP SGLLKNFQDIMQKQRPERSHLLQDNLPKSVSTFYDRFFEKKIDEKKNDHTYRVFKTVNRR
AHIFPMADDYSDSLITKKQVSVWCSNDYLGMSRHPRVCGAVMDTLKQHGAGAGGTRNISGTSKFHVDLERELADL
HGKDAALLFSSCFVANDSTLFTLAKMMPGCEIYSDSGNHASMIQGIRNSRVPKYIFRHNDVSHLRELLQRS DPSV
PKIVAFETVHSMDGAVCPLEELCDVAHEFGAITFVDEVHAVGLYGARGGGIGDRDGVMPKMDIISGTLGKAFCV
GGYIASTSSLIDTVRSYAAGFI FTTS LPPMLLAGALESVRILKSAEGRVLRQHQQRNVKLMRQMLMDAGLPVVHC
PSHIIPVRVADAAKNTEVCDELMSRHNIYVQAINYPTVPRGEELLRIAPTPHHTPQMMNYFLENLLVTWKQVGLE
LKPHSSAECNFCRRPLHFEVMSEREKSYFSGLSKLVSAQA

639/2777
FIGURE 561

ACAGAGATGGCACTGATGCAGGAAGTGTATAGCACACCAGCCTCCAGGCTGGACTCCTTCGTGGCTCAGTGGCTG
CAGCCCCACCGGGAGTGGAAAGGAAGAGGTGCTAGACGCTGTGCGGACCGTGGAGGAGTTTCTGAGGCAGGAGCAT
TTCCAGGGGAAGCGTGGGCTGGACCAGGATGTGCGGGTGCTGAAGGTAGTCAAGGTGGGCTCCTTCGGGAATGGC
ACGGTTCTCAGGAGCACCAGAGAGGTGGAGCTGGTGGCGTTTCTGAGCTGTTTCCACAGCTTCCAGGAGGCAGCC
AAGCATCACAAAGATGTTCTGAGGCTGATATGGAACCATGTGGCAAAGCCAGGACCTGCTGGACCTCGGGCTC
GAGGACCTGAGGATGGAGCAGAGAGTCCCCGATGCTCTTGTCTTACCATCCAGACCAGGGGGACTGCGGAGCCC
ATCACGGTCACCATTTGTGCCTGCCTACAGAGCCCTGGGGCCTTCTCTTCCCACTCCCAGCCACCCCTGAGGTC
TATGTGAGCCTGATCAAGGCCTGCGGTGGTCTGGAATTTCTGCCCATCCTTCAGCGAGCTGCAGAGAAATTTCT
GTGAAACATCGGCCAACTAAGCTGAAGAGCCTCCTGCGCCTGGTGAAACACTGGTACCAGCAGTATGTGAAAGCC
AGGTCCCCCAGAGCCAATCTGCCCCCTCTCTATGCTCTTGAACCTCTAACCATCTATGCCTGGGAAATGGGTACT
GAAGAAGACGAGAATTTTCATGTTGGACGAAGGCTTCACCACTGTGATGGACCTGCTCCTGGAGTATGAAGTCATC
TGTATCTACTGGACCAAGTACTACACACTCCACAATGCAATCATTGAGGATTGTGTCAGAAAACAGCTCAAAAAA
GAGAGGGCCCATCATCCTGGATCCGGCCGACCCACCCCTCAACGTGGCAGAAGGGTACAGATGGGACATCGTTGCT
CAGAGGGCCTCCCAGTGCCTGAAACAGGACTGTTGCTATGACAACAGGGAGAACCCCATCTCCAGCTGGAACGTG
AAGAGGGCACGAGACATCCACTTGACAGTGGAGCAGAGGGGTTACCCAGATTTCAACCTCATCGTGAACCCCTTAT
GAGCCCATAAGGAAGGTTAAAGAGAAAATCCGGAGGACCAGGGGCTACTCTGGCCTGCAGCGTCTGTCTTCCAG
GTTCTTGGCAGTGAGAGGCAGCTTCTCAGCAGCAGGTGCTCCTTAGCCAAATATGGGATCTTCTCCCACTCAC
ATCTATCTGCTGGAGACCATCCCCTCCGAGATCCAGGTCTTCGTGAAGAATCCTGATGGTGGGAGCTACGCCTAT
GCCATCAACCCCAACAGCTTCATCCTGGGTCTGAAGCAGCAGATTGAAGACCAGCAGGGGCTTCCTAAAAAGCAG
CAGCAGCTGGAATCCAAGGCCAAGTCTGTCAGGACTGGTTGGGTCTGGGGATCTATGGCATCCAAGACAGTGAC
ACTCTCATCCTCTCGAAGAAGAAAGGAGAGGCTCTGTTTCCAGCCAGT**TAG**TTTTCTCTGGGAGACTTCTCTGTA
CATTTCTGCCATGTACTCCAGAACTCATCCTGTCAATCACTCTGTCCCATTGTCTACTGGGAAGGTCCCAGGTCT
TCACCAGTTTTTACAATGAGTTATCCCAGGCCAGACGTGGTAGCTCACACCTGTAATCCCAGAACTTTGGGAGGCC
GAGGTGGGAGGAGCGCTTGAGCCGAGGAGTTCAAGACCAGCCTGGGTATCATAGGGAGACCCGTCTCTACAAAA
TAAAAAATAATTCAGTGGG

640/2777
FIGURE 562

MALMQELYSTPASRLDSFVAQWLQPHREWKEEVLDVAVRTVEEF LRQEHFQGKRGLDQDVRVLKVVKVGSFGNGTV
LRSTREVELVAFLSCFHSFQEAAKHHKDVLRLIWKT MWQSQDLLDLGLEDLRMEQRVPDALVFTIQTRGTAEPIIT
VTIVPAYRALGPSLPNSQPPPEVYVSLIKACGGPGNFCPSFSELQRNFVKHRPTKLKSLLRLVKHWYQQYVKARS
PRANLPPLYALELLTIYAWEMGTEEDENFMLDEGFTTVMDLLEYEVICIYWKYYTLHNAIIEDCVRKQLKKER
PIILD PADPTLNVAEGYRWDIVAQRASQCLKQDCCYDNRENPISSWNV KRARDIHLTVEQRGYPDFNLIVNPYEP
IRKVKEKIRRTRGYSGLQRLSFQVPGSERQLLSSRCSLAKYGIFSHTHIYLLETIPSEIQVFVKNPDGGSYAYAI
NPNSFILGLKQQIEDQQGLPKKQQQLEFQGQVLQDWLGLGIYGIQSDTLILSKKKGEALFPAS

641/2777
FIGURE 563

CACAACCTAGTCCAGAGCCTCACAGTCCTACTGAACCTCCTGTCATGGGGCAGCAGTATTGTGAAAGTTCCGTCCTG
GTATATTTGATGTCAACAGCAGGAAAAGTAGCACTGGTAGTATATCAAATGTGCTGTTTTCTACTCAAGATCCAG
TTGAAGATGCAGTCTTTGGCGAAGCTACTAATCTCAAGAAGAATGGTGATAGAGGAGAAAAAGACAAAAGCATT
TTCCTGAGAGGAGTTGTAGTTTTAGTTCTGAAAGTCGAGCAGGAATGTTGCTTAAGAAGAGTAGTTTGGATTCTGA
ATTCAGTGAAATGGCTATCATGATGGGAGCAGATGCCAAGATTCTCACAGCAGCATTGACATGTCCTAAGACTT
CTCTACTTCATATTGCAAGAACCCATAGCTTTGAGAATGTTAGCTGTCACCTACCTGATAGTAGGACTTGTATGT
CTGAAAGCACTTGGAATCCTGAGCACAGATCATCTCCGGTGCCAGAGATGCTTGAGGAAAGCCAAGAAGCTCCTTG
AGCCTGTGGTTGATGACGTACCTAAACTACTGCAACAGTAGATACATATGAGAGTCTACTAAGTGATAGTAACA
GTAATCAGTCCAGAGACTTGAAAACAGTATCCAAAGATCTGAGAAATAAGAGAAGTAGTTTATATGGTATTGCTA
AGGTGGTTTCAGAGGGAAGATGTTGAAACTGGACTAGATCCTTTGTCTCTTTTAGCCACTGAATGTACAGGAGGAA
AACTCCTGATTCTGAAGATAAGTTGTTTTCTCCAGTTATTGCACGTAATCTGGCTGATGAAATAGAAAGCTATA
TGAACCTAAAAGTCCCCTAGGTAGTAAATCTTCTAGTATGGAATTACACAGAGAGGAAAACAGAGAGTCTGGCA
TGACTACTGCATTTATTCTAGTCTCTAGAGAGGAGATCAAGCCTACCTTTAGATCATGGTTACCAGCACAGGAAA
ATCCTGAAAGTGAAAAGAGCTCACCTGCAGTGTCCAGGTCTAAAACCTTTTACTGGGCGTTTCAAGCAGCAAACCC
CCTCTCGAAGCTATAAAGAAGCTTCAACTTCTTTGTCAGCACTGGTGCGTTCTTCGCCACATGGCTCGTTGGGTT
CTGTAGTAAATTCTTTGTCAGGGCTAAAAGCTGGATAATATACTCTCAGGGCCCAAGATAGATGTCCTGAAATCTG
GTATGAAACAAGCAGCGACAGTAGCCAGTAAGATGTGGGTAGCTGTTGCGTCTGCCTACAGCTACTCAGATGATG
AGGAAGAACTAATAGAGACTACAGCTTCCCAGCTGGCCTAGAAGACCATATTTTGGGGGAGAATATATCGCCTA
ACACAAGTATCTCAGGGTTGGTCCCCAGTGAACCTACCCAGAGCAACACAAGTCTTGGCAGTAGCAGCAGTAGTG
GAGATGTAGGAAAAGTGCATTATCCAACAGGTGAAGTCCATTTCCAAGAGGCATGAAAGGGCAAGACTTTGAAA
AATCAGATCATGGTTCTTCTCAAAAATACCAGCATGTCTAGCATCTATCAGAATTGTGCAATGGAGGTTTGTATGT
CCAGTTGTTTCAGTGTAGAGCTTGTGGAGCTTTAGTTTATGATGAAGAAATTATGGCTGGATGGACAGCAGATG
ACTCAAATTTGAATACAGCTTGTCCATTCTGTAAAAGCAACTTCTTGCCCTCTTCTCAATATAGAATTCAAAGATT
TGAGAGGTTCTGCAAGCTTTTTCTGAAACCAAGTACCTCTGGTGACAGTTTACAAAGTGGAAGCATTCATTGG
CAAATGAATCCTTGGAGCACAAACCTGTATCCAGTTTAGCAGAACCTGACTTGATCAACTTTATGGACTTCCCAA
AACATAACCAGATCATACTGAAGAAACAGGCTCTGCAGTTGAACCAAGTGATGAAATAAAGAGAGCCAGTGGAG
ATGTCCAAACTATGAAAATTTCTATCTGTGCTAATAGTTTATCAAAGCGAAATGTGTCTTTGACTCGAAGTCACA
GTGTTGGAGGCCCATTCAGAAATATTGACTTTACCCAGCGACCGTTTCATGGCATCTCAACAGTTAGTCTTCCAA
ATAGTCTGCAGGAAGTTGTGGATCCTTTAGGAAAAAGACCCAATCCTCCCCCTGTTTCTGTGCCCTACTTGAGTC
CTCTAGTACTCCGTAAAGAACTTGAATCTTTGCTAGAAAATGAAGGTGATCAGGTGATTACATACATCTTCTTTCA
TCAATCAACATCCAATCATTTTCTGGAACCTCGTTTGGTATTTTCAGACGTTTGGACCTTCTAGTAACTTGCCAG
GACTTATCCTCACATCTGAACATTGTAATGAAGGTGTACAGCTTCTCTGTCTATCTGTCTCCAGGATAGCAAAC
TTGTGTATATTAGCTGTTATGGGATAATATCAACCTTCATCAGGAACCAAGAGAACCTCTGTATGTCTCATGGA
GGAATTTTAATTCTGAAAAGAAATCATCTCTCCTGTGAGAGGAACAACAAGAAACAAGCACTTTAGTAGAAACCA
TCAGGCAGAGTATTAGCACATAATGTTCTTAAACCCATCAACCTACTTTACAGCAAATGAAGCCAGGCATGA
AAAGACAAAGAGGCATTGACAATGAATATGGAATTGCATACAATAGTCTGTCTTCAGAGATTCTTGAAAGGTTG
CAGAAAATTGATGCTCCACCAAGTGCCAGTGTGAGTGGTGCAGGAAGTGTGTTTGGAGCGCTCTCATTTAAATA
GAGATTCACTAGAATGTTGACACACAAGGCTTGGGGATTAGATTTTCATCTGGAAACATTCAAGTTTTTTTTTCC
AAATCGTAAGAAGTGGTGAATACGGAATTGAAGTAACTCTTGGGGACAATATATAATGAATTATGATTCAATTG
CATTACCTTGAAATATGAAGTGCCATTGAAATGTCCAGGGCTTATTAATATTGAAGATTTTCAACCCCTGAACT
GCTTTTCTGCCTCTGTGGAAAACTACTTTGGGATTCTTCAGTATTTGTAGTAGTTTGATAGAAATAATGAGGAAC
CATATTCAATTCTAGGCATTGTTTATATTTGAAGTTACTGAGTTTGAGGAATGGCAAATTAATTTGCTTAACCCC
CAAAACAAATGAAATATCTCAATTATAAAAGCAACATGGCCGGGCACGGTGGCTCAGGCCTGTAATCCCAGCACT
TTGGGAGGCTGAGCAAGGTGGGTGGATCACTTGAGGCCAGGAGTTTCAGAGACCAGCCTGGCCAACACGGTGAGACC
CTGTCTTTACTAAAAATACAAAAATTAGCCAGGCGCACCCTGTAGTCCCAGCTACTCAGGCTGAGGCAGGAGAA
TCGCTTGAAGTGAAGGCAGAGGCTACAGTGAGTGGAGATCACGCCACTGCAACTCCAGCTTGGGTGACAGAGTGAG
ACCGTCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

642/2777
FIGURE 564

MLLKKSSLDNSSEMAIMMGADAKILTAALTCPKTSLHARTHSFENVSCHLPDSRTCMESESTWNPEHRSSPVP
EMLEESQELLEPEVDDVPKTTATVDTYESLLSDSNSNQSRDLKTVSKDLRNKRSSLYGIAKVQREDVETGLDPL
SLLATECTGGKTPDSEDKLFSPVIARNLADEIESYMNKSPLGSKSSSMELHREENRESGMTTAFIHALERRSSL
PLDHGSPAQENPESEKSSPAVSRSKTFTGRFKQQTTPSRTHKERSTSLSALVRSSPHGSLGSVNSLSGLKLDNIL
SGPKIDVLKSGMKQAATVASKMWAVASAYSYSDDDEEETNRDYSFPAGLEDHILGENISPNTSISGLVPSELTQS
NTSLGSSSSSGDVGKLHYPTGEVFPFPRGMKGQDFEKS DHGSSQNTSMSSYQNCAMEVLMSSCSQCRACGALVYD
EEIMAGWTADDSNLNTACPFCKSNFLPLLNIEFKDLRGSASFFLKPSTSGDSLQSGSIPLANESLEHKPVSSLAE
PDLINFMDFPKHNQIIITEETGSAVEPSDEIKRASGDVQTMKISSVPNSLSKRNVSLTRSHSVGGPLQNIDFTQRP
FHGISTVSLPNSLQEVVDPLGKRPNPPVSVPYLSPLVLRKELESLENEGDQVIHTSSFINQHPIIFWNLVWYF
RRDLPSNLPLGLILTSEHCNEGVQLPLSSLSQDSKLVYIQLLWDNINLHQEPREPLYVSWRNFNSEKKSSLLSEE
QQETSTLVETIRQSIQHNNVLKPINLLSQQMKPGMKRQRGI

643/2777
FIGURE 565

CAGCACCCAGCTCCCCGCCACCGCCATGGTCCCCGACACCGCCTGCGTTCTTCTGCTCACCTGGCTGCCCTCGG
CGCGTCCGGACAGGGCCAGAGCCCGTTGGGCTCAGACCTGGGCCCGCAGATGCTTCGGGAAGTGCAGGAAACCAA
CGCGGCGCTGCAGGACGTGCGGGACTGGCTGCGGCAGCAGGTGAGGAGATCACGTTCTGAAAAACACGGTGAT
GGAGTGTGACGCGTGCGGGATGCAGCAGTCAGTACGCACCGGCCCTACCCAGCGTGCGGGCCCTGCTCCACTGCGC
GCCCCGCTTCTGCTTCCCCGGCGTGCCCTGCATCCAGACGGAGAGCGGGCGGCCGCTGCGGGCCCTGCCCCGCGGG
CTTCACGGGCAACGGCTCGCACTGCACCGACGTCAACGAGTGCAACGCCACCCCTGCTTCCCCGAGTCCGCTG
TATCAACACCAGCCCGGGGTTCCGCTGCGAGGCTTGCCCGCGGGGTACAGCGGCCCCACCCACCAGGGCGTGGG
GCTGGCTTTTCGCCAAGGCCAACAAGCAGGTTTGACCGGACATCAACGAGTGTGAGACCGGGCAACATAACTGCGT
CCCCAACTCCGTGTGCATCAACACCCGGGGCTCCTTCCAGTGCGGGCCCGTGCCAGCCCGGCTTCGTGGGCGACCA
GGCGTCCGGCTGCCAGCGCGGCGCACAGCGCTTCTGCCCGACGGCTCGCCAGCGAGTGCCACGAGCATGCAGA
CTGCGTCTAGAGCGCGATGGCTCGCGGTGCTGCGTGTGTCGCTTGGCTGGGCGGCAACGGGATCCTCTGTGG
TCGCGACACTGACCTAGACGGCTTCCCCGACGAGAAGCTGCGCTGCCCGGAGCCGAGTGCCGTAAGGACAAGT
CGTGACTGTGCCAACTCAGGGCAGGAGGATGTGGACCGCGATGGCATCGGAGACGCCTGCGATCCGGATGCCGA
CGGGGACGGGGTCCCCAATGAAAAGGACAAGTGCCCGCTGGTGCGGAACCCAGACCAGCGCAACACGGACGAGGA
CAAGTGGGGCGATGCGTGCGACAAGTGCCGTTCCAGAAGAACGACGACCAAAAGGACACAGACCAGGACGGCCG
GGGCGATGCGTGCGACGACGACATCGACGGCGACCGGATCCGCAACCAGGCCGACAAGTGCCTAGGGTACCCAA
CTCAGACCAGAAGGACAGTGATGGCGATGGTATAGGGGATGCCTGTGACAAGTGTCCCCAGAAGAGCAACCCGGA
TCAGGCGGATGTGGACCACGACTTTGTGGGAGATGCTTGTGACAGCGATCAAGACCAGGATGGAGACGGACATCA
GGACTCTCGGGACAAGTGTCCCACGGTGCCCTAACAGTGCCAGGAGGACTCAGACCAGATGGCCAGGGTGATGC
CTGCGACGACGACGACGACAATGACGGAGTCCCTGACAGTCGGGACAAGTGCCGCTGGTGCCCTAACCCCGGCCA
GGAGGACGCGGACAGGGACGGCGTGGGCGACGTGTGCCAGGACGACTTTGATGCAGACAAGGTGGTAGACAAGAT
CGACGTGTGTCCGGAGAACGCTGAAGTCACGCTCACCGACTTCAGGGCCTTCAGACAGTCGTGCTGGACCCGGA
GGGTGACGCGCAGATTGACCCCAACTGGGTGGTGCTCAACCAGGGAAGGGAGATCGTGACACAATGAACAGCGA
CCCAGGCCTGGCTGTGGGTACACTGCCTTCAATGGCGTGGACTTCGAGGGCACGTTCCATGTGAACACGGTCAC
GGATGACGACTATGCGGGCTTCATCTTTGGCTACCAGGACAGCTCCAGCTTCTACGTGGTCATGTGGAAGCAGAT
GGAGCAAACGTATTGGCAGGCGAACCCCTTCCGTGCTGTGGCCGAGCCTGGCATCCAAGCTCAAGGCTGTGAAGTC
TTCCACAGGCCCCGGGGAACAGCTGCGGAACGCTCTGTGGCATAACAGGAGACACAGAGTCCCAGGTGCGGCTGCT
GTGGAAGGACCCGCGAAACGTGGGTGGGAAGGACAAGAAGTCCTATCGTTGGTTCTTGACGACCCGGCCCCAAGT
GGGCTACATCAGGGTGCGATTCTATGAGGGCCCTGAGCTGGTGGCCGACAGCAACGTGGTCTTGACACAACCAT
GCGGGGTGGCCGCTGGGGGTCTTCTGCTTCTCCCAGGAGAACATCATCTGGGCCAACCTGCGTTACCGCTGCAA
TGACACCATCCCAGAGGACTATGAGACCCATCAGCTGCGGCAAGCCTTAGGGACCAGGGTGAGGACCCGCCGGATG
ACAGCCACCCTCACCGCGGCTGGATGGGGGCTCTGCACCCAGCCCAAGGGGTGGCCGTCTGAGGGGGAAGTGAG
AAGGGCTCAGAGAGGACAAAATAAAGTGTGTGTGCAGGG

644/2777
FIGURE 566

MVPDTACVLLLTLLAÄLGASGQGQSPLGSDLGPQMLRELQETNAALQDVRDWLRQQVREITFLKNTVMECDACGMQ
QSVRTGLPSVRPLLHCAPGFCFPGVACIQTESGGRCGPFCAGFTGNGSHCTDVNECNAHPCFPRVRCINTSPGFR
CEACPPGYSGPTHQGVGLAFKANKQVCTDINECETGQHNCVPNSVCINTRGSFQCGPCQPGFVGDQASGCQGA
QRFCPDGSPSECHEHADCVLERDGSRSVCVRVGWAGNGILCGRD TDLDGFPDEKLRCPEPQCRKDNCVTVPNSGQ
EDVDRDGIGDACDPDADGDGVPNEKDNCPLVRNPDQRNTDEDKWDACDNCRSQKNDDQKDTDQDGRGDACDDDI
DGDRIRNQADNCPRVPNSDQKDSGDGIGDACDNCPOKSNPDQADVHDHDFVGDACDSDQDQDGDGHQDSRDNCPT
VPNSAQEDSDHDGQGDACDDDDNDGVPDSRDNCRLVPNPGQEDADRDGVGDVCQDDFDADKVVDKIDVCPENAE
VLTIDFRAFQTVVLDPEGDAQIDPNWVVLNQGRIEIVQTMNSDPGLAVGYTAFNGVDFEGTFHVNTVTDDDYAGFI
FGYQDSSSFYVVMWKQMEQTYWQANPFRAVAEPGIQLKAVKSSTGPGEQLRNALWHTGDTESQVRLWLKDPNVG
WKDKKSYRWFLQHRPQVGYIRVRFYEGPELVADSNVVLDTTMRGGRLGVFCFSQENI IWANLRYRCNDTIPEDYE
THQLRQA

645/2777
FIGURE 567

GGGGTGGTGCAGGGCAGGGGTGGTATATCCTGTCTGACGGAGGGCGGGCCTCGCCAGTGCCAGAGAGGGACGAAC
CAGGGTGGAAGCGCCAGGAGCAGCTGCAGGGAGCCCTCACGCGGACCTCGCACTCTATGGCCGTAGGGAGCCGCT
GAGAGCGAGAAGAGCACGCTCCTGCCCCGCCGCTGCACCGCACCTCGCCTCGCCTCTCTGCTCTCTAGGCCCG
GCCGCGCGCCACCCGCTCCCGCCACCATGAACCACCTCGCCGCTCAAGACCGCCTTGGCGTACGAATGCTTCCAG
GACCAGGACAACCTCCACGTTGGCTTTGCCGTCGGACCAAAGATGAAAACAGGCACGTCTGGCAGGCAGCGCGTG
CAGGAGCAGGTGATGATGACCGTCAAGCGGCAGAAGTCCAAGTCTTCCCAGTCGTCCACCCTGAGCCACTCCAAT
CGAGGTTCCATGTATGATGGCTTGGCTGACAATTACAACCTATGGGACCACCAGCAGGAGCAGCTACTACTCCAAG
TTCCAGGCAGGGAATGGCTCATGGGGATATCCGATCTACAATGGAACCCTCAAGCGGGAGCCTGACAACAGGCGC
TTCAGCTCCTACAGCCAGATGGAGAAGTGGAGCCGGCCTACCCCCGGGGCAGCTGTAACACCACCGGCGCAGGC
AGCGACATCTGCTTCATGCAGAAAATCAAGGCGAGCCGAGTGAGCCCCGACCTCTACTGTGACCCACGGGGCACC
CTGCGCAAGGGCAGCTGGGCAGCAAGGGCCAGAAGACCACCCAGAACCGCTACAGCTTTTACAGCACCTGCAGT
GGTCAGAAGGCCATAAAGAAGTGCCCTGTGCGCCCGCCCTCTTGTGCCCTCCAAGCAGGACCCTGTGTATATCCCCG
CCCATCTCCTGCAACAAGGACCTGTCCCTTGGCCACTCTAGGGCCAGCTCCAAGATCTGCAGTGAGGACATCGAG
TGCAGTGGGCTGACCATCCCCAAGGCTGTGCAGTACCTGAGCTCCCAGGATGAGAAGTACCAGGCCATTGGGGCC
TATTACATCCAGCATACCTGCTTCCAGGATGAATCTGCCAAGCAACAGGTCTATCAGCTGGGAGGCATCTGCAAG
CTGGTGGACCTCCTCCGAGCCCCAACCAGAACGTCCAGCAGGCCGCGGCAGGGGCCCTGCGCAACCTGGTGTTT
AGGAGCACCAACAAGCTGGAGACCCGAGGCAGAATGGGATCCGCGAGGCAGTCAGCCTCCTGAGGAGAACC
GGGAACGCCGAGATCCAGAAGCAGCTGACTGGGCTGCTCTGGAACCTGTCTTCCACTGACGAGCTGAAGGAGGAA
CTCATTGCCGACGCCCTGCCTGTTCTGGCCGACCGGTCATCATTCCCTTCTCTGGCTGGTGCGATGGCAATAGC
AACATGTCCCGGAAGTGGTGGACCCCTGAGGTCTTCTTCAATGCCACAGGCTGCTTGAGGAACCTGAGCTCGGCC
GATGCAGGCCGCCAGACCATGCGTAACTACTCAGGGCTCATTGATTCCCTCATGGCCTATGTCCAGAAGTGTGTA
GCGGCCAGCCGCTGTGACGACAAGTCTGTGGAAAAGTGCATGTGTGTTCTGCACAACCTCTCCTACCGCCTGGAC
GCCGAGGTGCCCCACCCGCTACCGCCAGCTGGAGTATAACGCCCCGAACGCCTACACCGAGAAGTCTCCACTGGC
TGCTTCAGCAACAAGAGCGACAAGATGATGAACAACAACCTATGACTGCCCCCTGCCTGAGGAAGAGACCAACCCC
AAGGGCAGCGGCTGGTTGTACCATTCAGATGCCATCCGCACCTACCTGAACCTCATGGGCAAGAGCAAGAAAGAT
GCTACCCTGGAGGCCTGTGCTGGTGCCCTGCAGAACCTGACAGCCAGCAAGGGGCTGATGTCCAGTGGCATGAGC
CAGTTGATTGGGCTGAAGGAAAAGGGCCTGCCACAAATTGCCCCCTCCTGCAATCTGGCAACTCTGATGTGGTG
CGGTCCGGAGCCTCCCTCCTGAGCAACATGTCCCGCCACCCTCTGCTGCACAGAGTGATGGGGAACCAAGGTGTT
CCGGAGGTGACCAGGCTCCTCACCAGCCACACTGGCAATACCAGCAACTCCGAAGACATCTTGTCTCGGCCCTGC
TACACTGTGAGGAACCTGATGGCCTCGCAGCCACAACCTGGCCAAGCAGTACTTCTCCAGCAGCATGCTCAACAAC
ATCATCAACCTGTGCCGAAGCAGTGCCCTACCCCAAGGCCGAGAAGCTGCCCGGCTTCTCCTGTCTGACATGTGG
TCCAGCAAGGAAGTGCAGGGTGTCTCAGACAGCAAGGTTTCGATAGGAACATGCTGGGAACCTTAGCTGGGGCC
AACAGCCTCAGGAACCTTACCTCCCGATTCTTAAGAAGAGACTGTCCAAGCAAGTTAGGCTTGAGGAAGATATGA
CCCAGCTGAGAAGCCCTCAGGCCTCGCTGGATGGGGTTTTCTGTCCATCCTGTGCAGTATTTGGGAAAAGTTCACA
AGAAACTGAGAAGAAACCTAAAACTGTGGATAGTGGAAAGATTTTTTAGATTTTTTTTTTCTTGGGGAAACTGG
CAGGCAATGGGGGTAGGGAGGTTGGGGCGGGGGGGCTTTCTTGAGTTAAAGGG

646/2777
FIGURE 568

MNHSPLKTALAYECFQDQDNSTLALPSDQKMKTGTSGRQRVQEQVMMTVKRQKSKSSQSSSTLSHSNRGSMYDGLA
DNYNYGTTSSSYYSKFQAGNGSWGYPITYNGTLKREPDNRRFSSYSQMENWSRHYPRGSCNTTGAGSDICFMQKI
KASRSEPDLYCDPRGTLRKGTLGSKGQKTTQNRYSFYSTCSGQKAIKKCPVRPPSCASKQDPVYIPPI SCNKDLS
FGHSRASSKICSEDI ECSGLTIPKAVQYLSSQDEKYQAIGAYYIQHTCFQDESAKQQVYQLGGICKLVDLLRSPN
QNVQQAAGALRNLFVFRSTTNKLETRRQNGIREAVSLLRRTGNAEIQKQLTGLLWNLSSDELKEELIADALPVL
ADRVIIIPFSGWCDGNSNMSREVVDPEVFFNATGCLRNLSSADAGRQTMRNYSGLIDSLMAYVQNCVAASRCDDKS
VENCMCVLHNL SYRLDAEVPTRYRQLEYNARNAYTEKSSTGCF SNKSDKMMNNNYDCPLPEEETNPKGSGWLYHS
DAIRTYLNL MGKSKKDATLEACAGALQNL TASKGLMSSGMSQLIGLKEKGLPQIARLLQSGNSDVVRSGASLLSN
MSRHPLLHRVMGNQVFPEVTRLLTSHTGNTS NSEDILSSACYTVRNLMASQPQLAKQYFSSSMLNNI INLCRSSA
SPKAAEAARLLLSDMWSSKELQGVLRQQGFDRNMLGTLAGANSLRNFTSRF

647/2777
FIGURE 569

GGGAAGCTCCAGGCAAACAGCCCAGCAAACAGCAGCACTCAGCTAAAAGGAAGACTCACAGAACACAGTTGAAGA
AGGAAAGTGGCGATGGACCTCATCCCAAATTTGGCGGTGGAAACCTGGCTTCTCCTGGCTGTCAGCCTGGTGCTC
CTCTATCTATATGGGACCCGTACACATGGACTTTTTAAGAGACTGGGAATTCCAGGGCCCCACACCTCTGCCTTTG
TTGGGAAATGTTTTGTCTATCGTCAGGGTCTCTGGAAATTTGACACAGAGTGCTATAAAAAAGTATGGAAAAATG
TGGGGAACGTATGAAGGTCAACTCCCTGTGCTGGCCATCACAGATCCCGACGTGATCAGAACAGTGCTAGTGAAA
GAATGTTATTCTGTCTTCACAAATCGAAGGTCTTTAGGCCAGTGGGATTTATGAAAAAGTGCCATCTCTTTAGCT
GAGGATGAAGAATGGAAGAGAATACGGTCATTGCTGTCTCCAACCTTCACCAGCGGAAAACTCAAGGAGATGTTT
CCCATCATTGCCCAGTATGGAGATGTATTGGTGAGAACTTGAGGCGGGAAGCAGAGAAAAGGCAAGCCTGTCACC
TTGAAAGACATCTTTGGGGCCTACAGCATGGATGTGATTACTGGCACATCATTGGAGTGAACATCGACTCTCTC
AACAAATCCACAAGACCCCTTTGTGGAGAGCACTAAGAAGTTCTTAAATTTGGTTTCTTAGATCCATTATTTCTC
TCAATAATACTCTTTCCATTCTTTACCCAGTTTTTTGAAGCATTAAATGTCTCTCTGTTTCCAAAAGATACCATA
AATTTTTTAAGTAAATCTGTAAACAGAATGAAGAAAAGTCGCCTCAACGACAAACAAAAGCACCGACTAGATTTT
CTTCAGCTGATGATTGACTCCCAGAATTCGAAAGAACTGAGTCCCACAAAGCTCTGTCTGATCTGGAGCTCGCA
GCCAGTCAATAATCTTCATTTTTTGCTGGCTATGAAACCACCAGCAGTGTTCTTTCTTCCTTCATTTATATGAACG
GCCACTCACCTGATGTCCAGCAGAACTGCAAAAGGAGATTGATGCAGTTTTGCCCAATAAGGCACCACCTACC
TATGATGCCGTGGTACAGATGGAGTACCTTGACATGGTGGTGAATGAAACACTCAGATTATCCAGTTGCTATT
AGACTTGAGAGGACTTGCAAGAAAGATGTTGAAATCAATGGGGTATTTCATTCCCAAAGGGTCAATGGTGGTGATT
CCAACCTTATGCTCTTCACCATGACCCAAAGTACTGGACAGAGCCTGAGGAGTCCGCCCTGAAAGGTTTCAGTAAG
AAGAAGGACAGCATAGATCCTTACATATACACACCCTTTGGAAGTGGACCCAGAACTGCATTGGCATGAGGTTT
GCTCTCATGAACATGAACTTGCTCTAATCAGAGTCCTTCAGAACTTCTCCTTCAAACCTTGTAAGAAACACAG
ATCCCCTTGAAATTAGACACGCAAGGACTTCTTCAACCAGAAAAACCCATTGTTCTAAAGGTGGATTCAAGAGAT
GGAACCCTAAGTGGAGAATGAGTTATTCTAAGGATTTCTACTTTGGTCTTCAAGAAAGCTGTGCCCCAGAACACC
AGAGATTTCAACTTAGTCAATAAAACCTTGAAATAAAGATGGGCTTAATCTAATGTA

648/2777
FIGURE 570

MDLIPNLÄVETWLLLAVSLVLLYLYGTRTHGLFKRLGIPGPTPLPLLGNVLSYRQGLWKFDTECYKKYGKMWGTY
EGQLPVLAITDPDVIRTVLVKECYSVFTNRRSLGPVGFMKSAISLAEDEEWKRIRSLLSPTFTSGKCLKEMFPIIA
QYGDVLVRNLRREAEGKGPVTLKDIFGAYSMDVITGTSFGVNIDSLNNPQDPFVESTKKFLKFGFLDPLFLSIIL
FPFLTPVFEALNVSLFPKDTINFLSKSVNRMKKSRLNDKQKHRLDFLQLMIDSQNSKETESHKALSDELEAAQSI
IFIFAGYETTSSVLSFTLYELATHPDVQQKLQKEIDAVLPNKAPPTYDAVVQMEYLDMMVNETLRLFPVAIRLER
TCKKDVEINGVFIPKGS MVVIPTYALHHD PKYWTEPEEFRPERFSKKKDSIDPYIYTPFGTGPRNCIGMRFALMN
MKLALIRVLQNF SFKPCKETQIPLKLD TQGLLQPEKP IVLKVDSRDGTL SGE

649/2777
FIGURE 571A

TCACCTGCTGATATTTCCAGTGTGACAGGGACACAGCCAACTGGGGTCCCTTCTAGGCTGACAGCCGCTCTCC
AGCCACTGCCGCGAGCCCGTCTGCTCCCGCCCTGCCCGTGCACCTCTCCGAGCCGCCCTCCGCCAAGCCCCAGCG
CCCGCTCCCATCGCCGATGACCGCGGGGAGGAGGATGGAGATGCTCTGTGCCGGCAGGGTCCCTGCGCTGCTGCT
CTGCTGGGTTTCCATCTTCTACAGGCAGTCCTCAGTACAACCTGTGATTCCATCATGTATCCAGGAGAGTCCAG
TGATAACTGCACAGCTTTAGTTTCAGACAGAAGACAATCCACGTGTGGCTCAAGTGTCAATAACAAAGTGTAGCTC
TGACATGAATGGCTATTGTTTGCATGGACAGTGCATCTATCTGGTGGACATGAGTCAAACTACTGCAGGTGTGA
AGTGGGTTTATACTGGTGTCCGATGTGAACACTTCTTTTAACCGTCCACCAACCTTTAAGCAAAGAGTATGTGGC
TTTGACCGTGATTCTTATTATTTTGTCTTATCACAGTCGTCGGTTCACATATTATTTCTGCAGATGGTACAG
AAATCGAAAAAGTAAAGAACCAAAGAAGGAATATGAGAGAGTTACCTCAGGGGATCCAGAGTTGCCGCAAGTCTG
AATGGCGCCATCAAACCTTATGGGCAGGGATAACAGTGTGCTGGTGAATATTAATATTCCATTTTATTAATAATA
TTTATGTTGGGTCAAGTGTTAGGTCAATAACACTGTATTTTAAATGTACTTGAAAAATGTTTTATTTTTGTTTTA
TTTTTGACAGACTATTTGCTAATGTATAATGTGCAGAAAAATATTTAATATCAAAAGAAAATTGATATTTTTATAC
AAGTAATTTCTGAGCTAAATGCTTCATTGAAAGCTTCAAAGTTTATATGCCTGGTGCACAGTGCCTTAGAAGTAA
GCAATTTCCAGGTCATAGCTCAAGAATTGTTAGCAATGACAGATTTCTGTAAGCCTATATATATAGTCAAAATCG
ATTTAGTAAGTATGTTTTTATGTTCTCAAATCAGTGATAATTGGTTTACTGTACCATGGTTTGATATGTAGT
TGGCACCATGGTATCATATATTAAACAATAATGCAATTAGAATTGGGAGAAGCAAATATAGGTCTGTGTTAA
ACACTACACATTTGAAACAAGCTAACCTGGGGAGTCTATGGTCTCTTCACTCAGGTCTCAGCTATAATTTCTGTT
ATATGAGGGGCAGTGGACAGTTCCCTATGCCAACTCACGACTCCTACAGGTACTAGTCACTCATCTACCAGATTC
TGCCTATGTAAATGAATTGAAAAACAATTTTCTGTAATCTTTTATTTAAGTAGTGGGCATTTTCATAGCTTCACA
ATGTTCTTTTTTGTATATTACAACATTTATGTGAGGTAATTATTGCTCAACAGACAATTAGAAAAAGTCCACA
CTTGAAGCCTAAATTTGTGCTTTTTAAGAATATTTTAGACTATTTCTTTTTATAGGGGCTTTGCTGAATTTCTAA
CATTAAATCACAGCCCAAATTTGATGGACTAATTATTATTTTAAATATATGAAGACAATAATTCTACATGTTG
TCTTAAGATGGAATACAGTTATTTTCATCTTTTATTCAAGGAAGTTTTAACTTTAATACAGCTCAGTAAATGGCT
TCTTCTAGAATGTAAAGTTATGTATTTAAAGTTGTATCTTGACACAGGAAATGGGAAAAAACTTAAAAATTAATA
TGGTGTATTTTTCCAAATGAAAAATCTCAATTGAAAGCTTTTAAATGTAGAACTTAAACACACCTTCTGTGG
AGGCTGAGATGAAACTAGGGCTCATTTTCTGACATTTGTTTATTTTTTGAAGAGACAAAGATTTCTTCTGCA
CTCTGAGCCCATAGGTCTCAGAGAGTTAATAGGAGTATTTTGGGCTATTGCATAAGGAGCCACTGCTGCCACCA
CTTTTGGATTTTATGGGAGGCTCCTTCATCGAATGCTAAACCTTTGAGTAGAGTCTCCCTGGATCACATACCAGG
TCAGGGAGGATCTGTTCTTCTCTACGTTTATCCTGGCATGTGCTAGGGTAAACGAAGGCATAATAAGCCATGGC
TGACCTCTGGAGCACCAGGTGCCAGGACTTGCTCCATGTGTATCCATGCATTATATACCCTGGTGCAATCACAC
GACTGTCACTAAAGTCTGGCCCTGGCCCTTACTATTAGGAAAATAAACAGACAAAAACAAGTAAATATATATG
GTCCTATACATATTGTATATATATTCATATACAAACATGTATGTATACATGACCTTAATGGATCATAGAATTGCA
GTCATTTGGTGTCTGTCTAACCATTTATATAAACTTAAAAACAAGAGAAAAGAAAAATCAATTAGATCTAAACA
GTTATTTCTGTTTCTTATTTAATATAGCTGAAGTCAAAATATGTAAGAACACATTTTAAATACTCTACTTACAGT
TGGCCCTCTGTGTTAGTTCCACATCTGTGGATTCAACCAACCAAGGACGAAAATGCTTAAAAAATAATACAAC
AACAACAAAAAATACATTATAACAACATTTACTTTTTTTTTTTTTCTTTTTGAGATGGAGTCTCGCTCTGTTGCC
CAGGTTGGAGTGCAGTGGCAGATCTCGGCTCACTGCAACCTCACCTCCGGGTTCAAGAGATCCTCCTGCCTCA
GCCTCCTGAGCAGCTGGGACTACAGGCGCATGCCACCATGCCAGCTAATTTTTGTATTTTATAGTAGAGGCGGGG
TTTCACCATGTTGGCCAGGATGGTCTCAATCTCCTAACCTTGAGATCCACCCTCCACAGCCTCCCAAACCTGCTGG
GATTACAGGCGTGAGCCACCGCACGTAGCATTTACATTAGGTATTACAAGTAATGTAAAGATGATTTAAGTATAC
AGGAGGATGTGAATAGGTTATATGCAAGCACTATGCCCTTTTATATAAGTGACTTGAACATCTGTGCCCGATTTT
AGTATGTGAGGGGGGCGATCTGGGAATCAGTCCCCGTGGGATACCAAGGTACAAGTATTTTATTAACGCTTAC
TAGATGTGAGGAGAGTCTGAATATTTTTCAGTGATCTTGGCTGTTTCAAAAAAATCTATTGACTTTTCAATAAATC
AGCTGCAATCCATTTATTTTCAATTACAAAAGATTTATTGTAAGCCTCTCAATCTTGGTTTTTTCAGTTGATCTTAA
GCATGTCAATTCATAAAAAACAAGTCATTTTGTATTTTTCATCTTTAAGAATGCTTAAAAAAGCTAATCCCTAAA
ATAGTTAGATCTTTGTAAATGCATATTAAATAATAAAGTATGACCCACATTACTTTTTATGGGTGAAAAATAAGAC
AAAAATAATAGTTTTAGTGAGGATGGTGTGAGTAAACATAAAAACTGATTTGCTCTCAGCTGATGTGTCTGTGTA
CACAGTGGGAAGATTTTAGTTCACACTTAGTCTAACTCCCCCATTTTACAGATTTCTCACTATATATATTTCTAG

650/2777
FIGURE 571B

AAGGGGCTATGCATATTCAATGTATTGAGAACCAAAGCAACCACAAATGCATAAATGCATAATTTATGGTCTTCA
ACCAAGGCCACATAATAACCCAGTTAACTTACTCTTTAACCAGGAATATTAAGTTCTATAACTAGTACTCAAGGT
TTAACCTTAAAATTAAGATTTCTTAACCTTAACCTTAAAATTGATATTATATTAAACATACATAATACAATGTA
ACTCCACTGTTCTCCTGAATATTTTTTGCTCTAATCTCTCTGCCGAAAGTCAAAGTGATGGGAGAATTGGTATAC
TGGTATGACTACGTCTTAAGTCAGATTTTTATTTATGAGTCTTTGAGACTAAATTCAATCACCACCAGGTATCAA
ATCAACTTTTTATGCAGCAAATATATGATTCTAGTGTCTGACTTTTGTTAAATTCAGTAATGCAGTTTTTAAAAAC
CTGTATCTGACCCACTTTGTAATTTTTGCTCCAATATCCATTCTGTAGACTTTTGAAAAAAAAGTTTTTAATTTG
ATGCCCAATATATTCTGACCGTTAAAAAATTCCTTGTTTATATGGGAGAAGGGGGAGTAATGACTTGTACAAACAG
TATTTCTGGTGTATATTTTAATGTTTTTAAAAAGAGTAATTTCAATTAATATCTGTTATTCAAATTTGATGATG
TTAAATGTAATATAATGTATTTCTTTTTATTTTGCCTCTGTAATTGCATTTTTTAAGTTTGAAGAGCCATTTT
GGTAAACGGTTTTTTATTAAGATGCTATGGAACATAAAGTTGTATTGCATGCAATTTAAAGTAAGTTATTTGACT
ATGAATATTATCGGATTACTGAATTGTATCAATTTGTTTGTGTTCAATATCAGCTTTGATAATTGTGTACCTTAA
GATATTGAAGGAGAAAAATAGATAATTTACAAGATATTATTAATTTTTTATTATTTTTCTTGGAATTGAAAAAAA
TTGAAATAAATAAAAAATGCATTGAACATCTTGCATTCAAATCTTCACTGAC

651/2777
FIGURE 572

MTAGRRMEMLCAGRVPALLLCLGFHLLQAVLSTTVIPSCIPGESSDNCTALVQTEDNPRVAQVSITKCSSDMNGY
CLHGQCIYLVDMSONYCRCEVGYTGVRCEHFFLTVHQPLSKEYVALTVILIIILFLITVVGSTYYFCRWYRNRKSK
EPKKEYERVTSGDPELPQV

652/2777
FIGURE 573

CTATTGATCTGGACTCCTGGATAGGCAGCTGGACCAACGGACGGACGCCATGAGGGGCTCTGCTGCTCCTGGGGTT
CCTGCTGGTGAGCTTGGAGTCAACACTTTTCGATTCCACCTTGGGAAGCCCCCAAGGAGCATAAGTACAAAGCTGA
AGAGCACACAGTCGTTCTCACTGTACCGGGGAGCCCTGCCACTTCCCCTTCCAGTACCACCGGCAGCTGTACCA
CAAATGTACCCACAAGGGCCGGCCAGGCCCTCAGCCCTGGTGTGCTACCACCCCCAACTTTGATCAGGACCAGCG
ATGGGGATACTGTTTGGAGCCCAAGAAAGTGAAAGACCACTGCAGCAAACACAGCCCCCTGCCAGAAAGGAGGGAC
CTGTGTGAACATGCCAAGCGGCCCCCACTGTCTCTGTCCACAACACCTCACTGGAAACCACTGCCAGAAAGAGAA
GTGCTTTGAGCCTCAGCTTCTCCGGTTTTTCCACAAGAATGAGATATGGTATAGAACTGAGCAAGCAGCTGTGGC
CAGATGCCAGTGCAAGGGTCCTGATGCCCCACTGCCAGCGGCTGGCCAGCCAGGCCTGCCGCACCAACCCGTGCCT
CCATGGGGGTCGCTGCCTAGAGGTGGAGGGCCACCGCCTGTGCCACTGCCCGGTGGGCTACACCGGACCCTTCTG
CGACGTGGACACCAAGGCAAGCTGCTATGATGGCCGCGGGCTCAGTACC CGCGCCTGGCCAGGACCACGCTCTC
GGGTGCGCCCTGTACGCCGTGGGCCTCGGAGGCCACCTACCGGAACGTGACTGCCGAGCAAGCGCGGAACCTGGGG
ACTGGGCGGCCACGCCTTCTGCCGAACCCGGACAACGACATCCGCCCCTGGTGCTTCGTGCTGAACCGCGACCG
GCTGAGCTGGGAGTACTGCGACCTGGCACAGTGCCAGACCCCAACCCAGGCGGCGCCTCCGACCCCGGTGTCCCC
TAGGCTTCATGTCCCACTCATGCCCGCGCAGCCGGCACCGCCGAAGCCTCAGCCACGACCCGGACCCCGCCTCA
GTCCAGACCCCGGGAGCCTTGCCGGCGAAGCGGGAGCAGCCGCCTTCCCTGACCAGGAACGGCCCACTGAGCTG
CGGGCAGCGGCTCCGCAAGAGTCTGTCTTCGATGACCCGCGTCGTGGCGGGCTGGTGCGCTACGCGGGGCGCA
CCCCACATCGCCGCGCTGTACTGGGGCCACAGTTTCTGCGCCGGCAGCCTCATCGCCCCCTGCTGGGTGCTGAC
GGCCGCTCACTGCCTGCAGGACCGGCCCGCACCCGAGGATCTGACGGTGGTGCTCGGCCAGGAACGCCGTAACCA
CAGCTGTGAGCCGTGCCAGACGTTGGCCGTGCGCTCCTACCGCTGCACGAGGCCTTCTCGCCCGTCAGCTACCA
GCACGACCTGGCTCTGTTGCGCCTTCAGGAGGATGCGGACGGCAGCTGCGCGCTCCTGTGCGCTTACGTTACGCC
GGTGTGCTTGCCAAGCGGCGCCGCGCACCCCTCCGAGACCACGCTCTGCCAGGTGGCCGGCTGGGGCCACCAAGTT
CGAGGGGGCGGAGGAATATGCCAGCTTCCCTGCAGGAGGCGCAGGTACCGTTCCCTCTCCCTGGAGCGCTGCTCAGC
CCCGGACGTGCACGGATCCTCCATCCTCCCCGGCATGCTCTGCGCAGGGTTCCCTCGAGGGCGGCACCGATGCGTG
CCAGGGTGATTCCGGAGGCCCCGCTGGTGTGTGAGGACCAAGCTGCAGAGCGCCGGCTCACCTGCAAGGCATCAT
CAGCTGGGGATCGGGCTGTGGTGACCGCAACAAGCCAGGCGTCTACACCGATGTGGCCTACTACCTGGCCTGGAT
CCGGGAGCACACCGTTTCCTGATTGCTCAGGGACTCATCTTTCCCTCCTTGGTGATTCCGCAGTGAGAGAGTGGC
TGGGGCATGGAAGGCAAGATTGTGTCCATTCCCCCAGTGCGGCCAGCTCCGCGCCAGGATGGCGAGGAAC TCAA
TAAAGTGCTTTGAAAATGCTGAG

653/2777
FIGURE 574

MRALLLLGFLLVSLESTLSIPPWEAPKEHKYKAE EHTVVLTVTGEPCHF PFQYHRQLYHKCTHKGRPGPQPWCAT
TPNFDQDQRWGYCLEPKKVKDHCSKHSPCQKGGTCVNMPSGPHCLCPQH LTGNHCQKEKCFEPQLLRFFHKNEIW
YRTEQAAVARCQCKGPD AHCQRLASQACRTNPCLHGGRCL EVEGHR LCHCPVGYTGPFCDVDTKASCYDGRGLSY
RGLARTT LSGAPCQPWASEATYRNVTAEQARNWGLGGHAF CRNPDNDIRPWCFVLNRDRLSWEYCDLAQCQTPTQ
AAPPTPVSPRLHVPLMPAQ PAPPKPQPTTRTPPQSQTPGALPAKREQPPSLTRNGPLSCGQRLRKSLS SSMTRVVG
GLVALRG AHPYIAALYWGHSFCAGSLIAPCWVLTA AHCLQDRPAPEDLT VVLGQERRNHSCEPCQTLAVRSYRLH
EAFSPVSYQHDLALLRLQEDADGSCALLSPYVQPVCLPSGAARPSETTLCQVAGWGHQFEGAE EYASFLQEAQVP
FLSLERCSAPDVHGSSILPGMLCAGFLEGGTDACQGD SGGFLVCEDQAAERRLT LQGIISWGS GCGDRNKPGVYT
DVAYYLA WIREHTVS

654/2777
FIGURE 575

TGCCAGCCCAAGTCGGAAC TGGATCACATCAGATCCTCTCGAGCTCCAGCAGGAGAGGCCCTTCCTCGCCTGGC
AGCCCCTGAGCGGCTCAGCAGGGCACC **ATGG**CAAGATCCCTTCTCCTGCCCCTGAGATCTTACTGCTATCCTTA
GCCTTGGAAC TGCAGGAGAAGAAGCCCAGGGTGACAAGATTATTGATGGCGCCCCATGTGCAAGAGGCTCCAC
CCATGGCAGGTGGCCCTGCTCAGTGGCAATCAGCTCCACTGCGGAGGCGTCTTGGTCAATGAGCGCTGGGTGCTC
ACTGCCGCCCCACTGCAAGATGAATGAGTACACCGTGCACCTGGGCAGTGATACGCTGGGCGACAGGAGAGCTCAG
AGGATCAAGGCCTCGAAGTCATTCCGCCACCCCGGCTACTCCACACAGACCCATGTTAATGACCTCATGCTCGTG
AAGCTCAATAGCCAGGCCAGGCTGTTCATCCATGGTGAAGAAAGTCAGGCTGCCCTCCCGCTGCGAACCCCTGGA
ACCACCTGTACTGTCTCCGGCTGGGGCACTACCACGAGCCAGATGTGACCTTTCCTCTGACCTCATGTGCGTG
GATGTCAAGCTCATCTCCCCCAGGACTGCACGAAGGTTTACAAGGACTTACTGGAAAAATCCATGCTGTGCGCT
GGCATCCCCGACTCCAAGAAAAACGCCTGCAATGGTGACTCAGGGGGACCGTTGGTGTGCAGAGGTACCTTGCAA
GGTCTGGTGTCTGGGGAAC TTTCCCTTGC GGCCAACCCAATGACCCAGGAGTCTACACTCAAGTGTGCAAGTTC
ACCAAGTGGATAAATGACACCATGAAAAAGCATCGCT **TAAC**GCCACACTGAGTTAATTAACTGTGTGCTTCCAACA
GAAATGCACAGGAGTGAGGACGCCGATGACCTATGAAGTCAAATTTGACTTTACCTTTCCTCAAAGATATATTT
AAACCAACCTCATGCCCTGTTGATAAACCAATCAAATTGGTAAAGACCTAAAACCAAAACAAATAAAGAAACACA
AAACCCCTCAGTGCTGGAGAAGAGTCAGTGAGACCAGCACTCTCAAACACTGGAAC TGACGTTTCGTACAGTCTTT
ACGGAAGACACTTGGTCAACGTACACCGAGACCCTTATTCACCACCTTTGACCCAGTAACTCTAATCTTAGGAAG
AACCTACTGAAACAAAAAAATCCAAAATGTAGAACAAGACTTGAATTTACCATGATATTATTTATCACAGAAAT
GAAGTGAAACCATCAAACATGTTCCAAAAGTACCAGATGGCTTAAATAATAGTCTGGCTTGGCACAACGATGTTT
TTTTCTTTGAGACAGAGTCTCTGTTGCTTGGGCTGCAATGCAGTGATGCAATCTTGGCTCACTGCAACCTCCGC
CTCCTGGGTTCAAGTGATTCTCGTGCTTCAGCCTCCCAAGTACCTGGGACTACAGGTGTGCACCACCACACCAGG
CTAATTTTTTGTGTATTTTTACTAGAGACAGGGTTTCACCATGTTGGCCAGCGTGGTCTTGAACGCCTGACCTCA
GATGATCCACCCACCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCACGGCCAGCCACAATGATA
TTACAAACCTATTAAAAATGATACTTAGACAGAATTGTCTAGTATTATTCAAGAACATTTAGGCTATAGGATGTTA
AATGACAAAAGGAAGGACAAAAATATATATGTATGTGACCCTACCCATAAAAAATGAAATATTCACAGAATCAGA
TCTGAAAACACATGTCCCAGACTGCATACTGGGGTGTCTATGAGGTGTCTCCTTCCTTCTGTGTACTTTTCCTTG
AATGTGCACTTTTATAACATGAAAAATAAAGGTGGGGAAAAAAGTCTGAAGA

655/2777
FIGURE 576

MARSLLLPLQILLLSLALETAGEEAQGDKIIDGAPCARGSHPWQVALLSGNQLHCGGVLVNERWVLTAAHCKMNE
YTVHLGSDTLGDRRAQRIKASKSFRHPGYSTQTHVNDLMLVKLNSQARLSSMVKKVRLPSRCEPPGTTCTVSGWG
TTTSPDVTFFPSDLMCVDVKLISPQDCTKVYKDLENSMLCAGIPDSKKNACNGDSGGPLVCRGTLQGLVSWGTFP
CGQPNDPGVYTQVCKFTKWINDTMKKHR

656/2777
FIGURE 577

TCAGGCCCCGCCCCGCCCTGCCCTCCCCTCCCGATCCCGGAGCC**ATGT**TGGCCCCCTGGCCCTAGTGATCGCCTCCCT
GACCTTGGCCTTGTCAGGAGGTGTCTCCAGGAGTCTTCCAAGTTCTCAACACCAATGGGACCAGTGGGTTTCT
CCCAGGTGGCTACACCTGCTTCCCCCACTCTCAGCCCTGGCAGGCTGCCCTACTAGTGCAAGGGCGGCTACTCTG
TGGGGGAGTCCCTGGTCCACCCCAAATGGGTCCCTCACTGCCGCACACTGTCTAAAGGAGGGGCTCAAAGTTTACCT
AGGCAAGCACGCCCTAGGGCGTGTGGAAGCTGGTGAGCAGGTGAGGGAAGTTGTCCACTCTATCCCCACCCTGA
ATACCGGAGAAGCCCCACCCACCTGAACCACGACCATGACATCATGCTTCTGGAGCTGCAGTCCCCGGTCCAGCT
CACAGGCTACATCCAAACCCTGCCCTTTCCACAACAACCGCCTAACCCCTGGCACCACCTGTCGGGTGTCTGG
CTGGGGCACCACCACCAGCCCCAGGTGAATTACCCAAAACCTCTACAATGTGCCAACATCCAACCTTCGCTCAGA
TGAGGAGTGTCGTCAAGTCTACCCAGGAAAGATCACTGACAACATGTTGTGTGCCGGCACAAAAGAGGGTGGCAA
AGACTCCTGTGAGGGTGACTCTGGGGGCCCCCTGGTCTGTAACAGAACACTGTATGGCATCGTCTCCTGGGGAGA
CTTCCCATGTGGGCAACCTGACCGGCCTGGTGTCTACACCCGTGTCTCAAGATACGTCCTGTGGATCCGTGAAAC
AATCCGAAAATATGAAACCCAGCAGCAAAAATGGTTGAAGGGCCCA**ATAA**AGTTGAGAAATGTACCGGCTTC
CATCCTGTCACCATGACTTCCTCACATGGTCTGCTTAGCCCTTCTCTGCTCCTTATCCCAGTGTTCATTGAA
CCAGTGATCCATGTCCTGAAAAATGCTCAATCTCAGCTAACATTCCATGTTTCAGAAGCATTACAGGCACTGCCAG
GCTTGCAGTCTCCAGATGTTGCATCCCTGAAACATCTCAACAACCTGAATGTCCCAACCCAGACAATGGCCCAG
GTCTCTCAACTTCATCAGTGTGGCTTCTATGAGCCCAGATCACCACTGAACGTTCTGTCTGTGGCACATTCTTA
AATATTCCATCAGCCCATCTCAACAATATATGTCCTATAAATGGACCATCCTTGACA

657/2777
FIGURE 578

MWPLALVIASLTTLALS GGVSQESSKVLNTNGTSGFLPGGYTCFPHSQPWQAALLVQGRLLCGGVLVHPKWVLTA
HCLKEGLKVYL GKHALGRVEAGEQVREVVSIPHP EYRRSPTHLNHDHDIMLLELQSPVQLTG YIQTLPLSHNNR
LTPGTT CRVSGWGTTTSPQVNYPKTLQCANIQLRSDEECRQVYPGKITDNMLCAGTKEGGKDSCEGDSGGPLVCN
RTLYGIVSWGDFPCGQPD RPGVYTRVSRYVLWIRETIRKYETQQQKWLKGPQ

658/2777
FIGURE 579A

GAATTCCGATCTCTCGTCTCTTCCTGGGCTAGGCCGCCCCAGGCGCGGCCCTGCGACTCCTGGCACGGCCCCG
TGCTCGGCTGCCGCCCTGGCGCGCGCCACACTGTCGTCCCCGACGGGCGCGGACCGGCTCGGCCGGGGCGCCGG
CGGCTGGGGAGGGGTCGCTGGCCCCGGGGCCGCGCATGCGCCGCCACCAACTTGGGGCTGTCACTGGAGGGCGAG
TGCTGGTTCTCAGGGGAGGCGACGCCTTCGGGGCCACGGGCCTCGAGCCGAGGCAGCAGTGGGAACGACTCATCC
TTTTTCCAGCCCTGGGGCGTGGCTGGGGTTCGGGGTTCGGGGTTCGGGGCCGGTGGGGGCCCCGCCCGCTCTCCTGG
CCTGCCCCCTTCATGGGCGCGCATGATGGCGGCCCTGTACCCGAGCACGGACCTCTCGGGCGCCTCCTCCTCCTC
CCTGCCTTCTCTCCATCCTCTCTCTCGCCGAACGAGGTGATGGCGCTGAAGGATGTGCGGAGGTGAAGGAGGA
GAATACGCTGAATGAGAAGCTTTTCTTGCTGGCGTGCAGACAAGGGTGACTATTATATGGTTAAAAAGATTTTGGGA
GGAAAAACAGTTCAGGTGACTTGAACATAAATTGCGTAGATGTGCTTGGGAGAAATGCTGTTACCATAACTATTGA
AAACGAAAACTTGGATATACTGCAGCTTCTTTTGGACTACGGTTGTCAGAACTAATGGAACGAATTCAGAATCC
TGAGTATTCAACAACATATGGATGTTGCACCTGTCAATTTAGCTGCTCATCGTAACAACATATGAAATCTTACAAT
GCTCTTAAAAACAGGATGTATCTCTACCCAAGCCCCATGCAGTTGGCTGTGAATGCACATTGTGTTCTGCAAAAAA
CAAAAAGGATAGCCTCCGGCATTCCAGGTTTCGTCTTGATATATATCGATGTTTGGCCAGTCCAGCTCTAATAAT
GTTAACAGAGGAGGATCCAATTCTGAGAGCATTGAACTTAGTGCTGATTAAAAAGAACTAAGTCTTGTTGGAGGT
GGAATTCAGGAATGATTATGAGGAAC TAGCCCGGCAATGTAAATGTTTGCTAAGGATTTACTTGCACAAGCCCCG
GAATTCCTCGTGAATTGGAAGTTATTCTAAACCATACGTCTAGTGACGAGCCTCTTGACAAACGGGGATTATTAGA
AGAAAGAATGAATTTAAGTCGTCTAAACTTGTCTATCAAATATAACCAGAAAGAGTTTGTCTCCAGTCTAACTG
CCAGCAGTTCTGAACACTGTTTGGTTTGGACAGATGTCGGGTTACCGACGCAAGCCCACCTGTAAGAAGATAAT
GACTGTTTTGACAGTAGGCATCTTTTGGCCAGTTTGTCACTTTGTTATTTGATAGCTCCCAATCTCAGTTTGG
CAGAATCATTACACACCTTTTATGAAATTTATCATTATGGAGCATCATATTTACATTTCTGCTGTTGCTTAA
TCTATACTCTCTTGTTTACAATGAGGATAAGAAAAACACAATGGGGCCAGCCCTTGAAAGAATAGACTATCTTCT
TATTCTGTGGATTATTGGGATGATTGGTCAGACATTAAAGACTCTGGTATGAAGGGTTGGAAGACTTTTTTAGA
AGAATCTCGTAATCAACTCAGTTTGTCTATGAATCTCTTTATTTGGCAACCTTTGCCCTCAAAAGTGGTTGCTCA
CAACAAGTTTCATGATTTTGTCTGATCGGAAGGATTGGGATGCATTCCATCCTACACTGGTGGCAGAAGGGCTTTT
TGCATTTGCAAAATGTTCTAAGTTATCTTCGTCTCTTTTTTATGTATACAACCAGCTCTATCTTGGGTCCATTACA
GATTTCAATGGGACAGATGTTACAAGATTTTGGAAAATTTCTTGGGATGTTTCTTCTTGTGTTTTCTTTTCTTAC
AATTGGACTGACACAACCTGTATGATAAAGGATATACTTCAAAGGAGCAGAAGGACTGTGTAGGCATCTTCTGTGA
ACAGCAAAGCAATGATACCTTCCATTTCGTTTCATTGGCACCTGCTTTGCTTTGTTCTGGTATATTTTCTCCTTAGC
GCATGTGGCAATCTTTGTCTACAAGATTTAGCTATGGAGAAGAACTGCAGTCCCTTTGTGGGAGCTGTCAATTGTTGG
TACATACAATGTCGTGGTTGTGATTGTGCTTACCAAACCTGCTGGTGGCAATGCTTCATAAAAGCTTTTCACTTGAT
AGCAAATCATGAAGACAAAGAATGGAAGTTTGTCTCGAGCAAATTTATGGCTTAGCTACTTTGATGACAAATGTAC
GTTACCTCCACCTTTCAACATCATTCCTCACCAAAGACTATCTGCTATATGATTAGTAGCCTCAGTAAGTGGAT
TTGCTCTCATACATCAAAAAGGCAAGGTCAAACGGCAAACAGTTTAAAGGAATGGAGGAATTTGAAACAGAAGAG
AGATGAAAACATCAAAAAGTGATGTGCTGCCTAGTGCATCGTTACTTGACTTCCATGAGACAGAAGATGCAAAG
TACAGATCAGGCAACTGTGGAAAATCTAAACGAACCTGCGCCAAGATCTGTCAAATTCGAAATGAAATAAGGGA
TTTACTTGGCTTTTCGGACTTCTAAATATGCTATGTTTTATCCAAGAAATTAACCATTTTCTAAATCATGGAGCGA
ATAATTTTCAATAACAGATCCAAAAGACTATATTGCATAACTTGCAATGAAATTAATGAGATATATATTGAAATA
AAGAATTATGTAAAXGCCATTCTTTAAATATTTTATAGCATAAATATATGTTATGTAAAGTGTGTATATAGAATT
AGTTTTTTTAAAXCTTCTGTTAGTGGCTTTTTCAGAAAGCXAACAGATTAAGTAGATAGATTTTGTTAGCATGCT
GCTTGGTTTTTCTTACTTAGTGCTTTTAAATGTTTTTTTTTATGTTTAAAGAGGGGCAGTTATAAATGGACACATTG
CCCAGAATXTTTTTGTAAATGAAGACCAGCAAATGTAGGCTGATCTCCTTCACAGGATACACTTGAAATATAGAA
GTTATGTTTTTAAATATCTCTGTTTTAGGAGTTCACATATAGTTTACGATTTATTGTTTAGGAGTATAATTTTATT
TTATCTAAAATAATAGTCTATTTTTCTTTTGTATTTTGTATAATCTTAAGCAACAAAGAAAAACCCTAATAT
TTGAATCTATTTATGCTTTCAATTTAAATTCATTCAGTTTTTGTATTGTAATATATTTACTTTTACATGGTT
ATAATCACTTTATATTTTAAATGTTTTTCACTTAATATTTTATATATACATTTCCATGTATTGATGTAGTTAG
TCCACATTTAAATTTTATAGAATTATATAGTTTTTGAATAACAGTCAGTAGATGTTTTATTTTTTAGCTATT
CAGTTATGTTTTATAAGTTTGCATAGCTACTTCTCGACATTTGGTTTGTGTTTTAATTTTTTTGTATCATAATAGTCC
TATTTTTTTTTTCAAGTTGGAGTGAATGTTTTTAGTTTTAAGATAGATAGGAGACACTTTTTTTATCACATGTAGTC

659/2777
FIGURE 579B

AC^ΔACCTGTTTTGTTTTGTAAA^ΔCATAGGAAGTCTCTTTAATGCAATGATTTGTTTTATATTTGGACTAAGGTT
CTTGAGCTTATCTCCCAAGGTACTTTCCATAATTTAACACAGCTTCTATAAAAGTGACTTCATGCTTACTTGTGG
ATCATTCTTGCTGCTTAAGATGAAAAGCATTGGTTTTTTAAAATTAGAGAATAAAATATGTATTTAAATTTTTGG
TGTGTTTCACATAAAGXGATGTAGCTAAAATGTTTTCATAGGCTATTATATATXCTCGCAGCATTTCAGTTAAGA
GGATATTAGGTATATAATTCTCTTCTTAACCGAATGTCAGATGGTCTTACGCCACAGGGTGCAGGTAACCCTTGG
CCTGTAAGCACCACCGATCCAGGGATCATTGTCTAAATAGGTTACTATTGTTTGTTCATCTGGAATTCCGAGGG
TGCACAAATTACCAGCAGCCTGAGGGAGGTCTTATTGGAAGGCTTCCTGCAGGAGGTGGCATCTGATCCGGGCT
AGACATGGGAGTTGGAATTTTCCAGACAGGGAAGGGCACTGTGGGTGGA^ΔACAAAGCACGAACAAACGTATGGT
GTGGGACCAAGCCTCACATGGTGCATAAATGATCAGAGGTGAGGCTGAAGCCTAGGTGTGTGTCAGGGGAAGAGC
TAGAAAGGAAGGTGGGGCAGGGAAGCTCAGTGAGTGTCTGCTACATGTGAGGCTTCATTCTGAGCACCAACTCTG
CGCGCTAATGCCACGAAGTGGAGTCATGATTCTTCCATTTTCCAGGTGAAGAAACAAAGCACGGGGAGAATTAG
CTTGTCCAAGGGCTCATGGCCAGTCGGTGGTGCCACTGGGATTTAACCAGGGATTCCAGCTGTGGAAGCTGCATG
CTGCCAGCTGAGCACTCCGTCTGTCCACCCTGGCAAATGACATGCTGAGGGCTGGGGGCAGTCATCTTCCAGCA
GTTGTGACCCAGAAATAATGATAATGCATCAGCCAGGTGGGCAAGAACTCAGACTTTGTGGTCAGACCTCGCTGT
GGCAGGGAGCTTAGAAAAGTCAC^ΔTTTTCTCCACAGCTGTGTAACATGGGGAAAGGGGGATGCTCAGCTCACCTC
TCATGGCCCTTGTGTGGGGATTTCAAGGGTAAATGCTGGAAAGCACTGAATATACAGCACTTAGTAGAGGCTTT
GCAAGCGGCTGTCTCACCCAAACGGATCCTTCCCCAGGAAAGCTCTGCAAATGGAGCCACTTGGCTTTTTGCCT
GATGCCATATTCCGTTGTTTAA^ΔACGGCGATCCCAA^ΔCTTAAGAGTATGAAAGGGGTGTTTTGCAGACAATGCAT
AATTAACCACTTCTAAACACAGGGTGTGCCAGGCTCCCTCAAAGCTGTTAATTATTCTTCATTAGTGATCTTAAG
TTAATGTAAATAATCCTGGAGCTCTGCCAGAGGCTCGGGCAGGGGAAGGAGCAGAGCCGCTTATTTCAACTAGC
AAACGGAAAGAAATCTTCACGGGGCGCCTCTGCGTTCTGCCTTGGTTGTGGGGAGATGCCTCTATAGACTCTTTA
GCTCTGCCCAAAGGCCATTGTGGGAGGCGGCAAGCCCTCTCCAAGTTCCAGAGCCCAGCCGACCTCAGGGTAC
TTTGGTTAATGAAATAGTTCAGGTGGGAAGAA^ΔATATGGAGGAGAGTAGTATACCCATCGCCCAGCTTCCAAAT
AAGCTGTTAATGGTGTGGTGGACTGCCCCGTGGGCCACCCACAAATCTTATCCCTTTCTGCTTCCCCAGAGC
TAAGCCTAAACAGTCCCTCTTGTGTTGGTGTGTAGATTTCCCATGCACATTTTTTTAAATTGCTGTAGGTACATAG
TAAGTGTATATATTTATGGGGTACGTGAGATGTTTTGACACAGGCACGCAATGTGAAATACACACTTCATGGAGA
ATTC

660/2777
FIGURE 580

MMAALYPSTDLSGASSSSLPSSPSSSSPNEVMALKDVREVKEENTLNEKLFLLACDKGDYYMVKKILEENSSGDL
NINCVDVLGRNAVTTITIEENENLDILQLLLDYGCQKLMERIQNPEYSTTMDVAPVILAAHRNNYEILTMLLKQDVS
LPKPHAVGCECTLCSAKNKKDSLRSRFRLDIYRCLASPALIMLTEEDPILRAFELSADLKELSLVEVEFRNDYE
ELARQCKMFAKDLLAQARNSRELEVILNHTSSDEPLDKRGLLEERMNLSRLKLAIKYNQKEFVSQSNCQQFLNTV
WFGQMSGYRRKPTCKKIMTVLTVGIFWPVLSLCYLIAPKSQFGRIIHTPFMKFIIHGASYFTFLLLLNLVSLVYN
EDKKNTMGPALERIDYLLILWIIIGMIWSDIKRLWYEGLEDLFLEESRNQLSFVMNSLYLATFALKVVAHNKFDFA
DRKDWDAFHPTLVAEGLFAFANVLSYLRLEFFMYTTSSILGPLQISMGQMLQDFGKFLGMFLLVLFSTIGLTQLY
DKGYTSKEQKDCVGIFCEQQSNDTFHSFIGTCFALFWYIFSLAHVAIFVTRFSYGEELQSFVGAVIVGTYNVVVV
IVLTKLLVAMLHKSFQLIANHEDKEWKFARAKLWLSYFDDKCTLPPPFNIIPSPKTICYMISSLSKWICSHTSKG
KVQRQNSLKEWRNLKQKRDENYQKVMCCLVHRYLTSMRQKMQSTDQATVENLNELRQDLSKFRNEIRDLLGFRTS
KYAMFYPRN

661/2777
FIGURE 581

CATTGGACTTCAGCATGACTACTCAGTTGCCAGCTTACGTGGCAATTTTGCTTTTCTATGTCTCAAGAGCCAGCT
GCCAGGACACTTTTCATTGCAGCTGTTTATGAGCATGCAGCGATATTGCCCAATGCCACCCTAACACCAGTGTCTC
GTGAGGAGGCTTTGGCATTAAATGAATCGGAATCTGGACATTTTGGGAAGGAGCGATCACATCAGCAGCAGATCAGG
GTGCGCATATTATTGTGACTCCAGAAGATGCTATTTATGGCTGGAACTTCAACAGGGACTCTCTCTACCCATATT
TGGAGGACATCCCAGACCCTGAAGTAACTGGATCCCCTGTAATAATCGTAACAGATTTGGCCAGACCCCAGTAC
AAGAAAAGACTCAGCTGCCTGGCCAAGAACAACCTCTATCTATGTTGTGGCAAATATTGGGGACAAGAAGCCATGCG
ATACCAGTGATCCTCAGTGTCCCCCTGATGGCCGTTACCAATACAACACTGATGTGGTATTTGATTCTCAAGGAA
AACTGGTGGCAGCTACCATAAGCAAAACCTTTTTCATGGGTGAAAAATCAATTCAATGTACCCAAGGAGCCTGAGA
TTGTGACTTTCAATACCACCTTTTGGGAAGTTTTGGCATTTCACATGCTTTGATATACTCTTCCATGATCCTGCTG
TTACCTTGGTGAAAGATTTCCACGTGGACACCATAGTATTCCCAACAGCTTGGATGAATGTTTTGCCACATTTGT
CAGCTGTTGAATTCCTCAGCTTGGGCTATGGGCATGAGGGTCAATTTCTTGCATCCAACATACATTACCCCT
CAAGAAAAATGACAGGAAGTGGCATCTATGCACCCAATTCTTCAAGAGCATTTCATTATGATATGAAGACAGAAG
AGGGAAAACTCCTCCTCTCGCAACTGGATTCCCACCCATCCCATCTGCAGTGGTGAAGTGGACTTCTATGCCA
GCAGTATAGAAGCGCTCTCATCAGGAACAAGGAATTTAAAGGCACTGTCTTTTTCGATGAATTCACTTTTGTGA
AGCTCACAGGAGTTGCAGGAATTTATACAGTTTGTGAGAAAGATCTCTGCTGTCTTTAAGCTACAAAATGTCTG
AGAACATACCAAATGAAGTGTACGCTCTAGGGGCATTTGACGGACTGCACACTGTGGAAGGGCGCTATTATCTAC
AGATTTGTACCCTGTTGAAATGTAAACGACTAATTTAAACACTTGCGGTGACTCAGCTGAAACAGCTTCTACCA
GGTTGAAATGTTCTCCCTCAGTGGCACTTTCGGAACCCAGTATGTCTTTCCTGAGGTGTTGCTGAGTGAAAATC
AGCTTGACCTGGAGAATTTCAAGGTGTCAACTGACGGACGCTTGTTTAGTCTGAAGCCAACATCCGGACCTGTCT
TAACAGTAACCTGTTTGGGAGGTTGTATGAGAAGGACTGGGCATCAAAATGCTTCATCAGGCCTCACAGCACAAG
CAAGAATAATAATGCTAATAGTTATAGCACCTATTGTATGCTCATTAAGTTGGTAGAAATATTGACTTTTTCTCTT
TTTTATTGGGATAATTTAAAAAATGATGGATGAGAAAAGAAAGATTGGTCCGGGTTAATATTATCCTCTAGTAT
AAGTGAATTACTAGTTTCTCTTTATTTAGACAAACACACACACCAGATAATATAAACTTAATAAATTATCTGT
TAATGTAGATTTTATTTAAAAAATATATTTGAACATTGGTCTTTCTTGGACGTGAGCTAATTATATCAAATAAG
TATCACAAATCTTTTACGCAGAAGAAATAAAAACTACGGGTAGAAAACATAAGAACTATCATAAAATTTACTTAC
AAGGAGGCTGCTCTTGTTACCCTTTTATTATATTACGTATCACTTATTCAGCTCTGCTGAAAATTTCCAATGAC
TTGTTTGTGTTGCTCTTTTAGTTTTTTTACCTAAACAATACATTTTGATTCTCTTGTTGGGTTGATAATGTCTCCCC
AAAAATTTACATGTTGAAGCACCTCAGAATGTGACTGTATTTGGAGACAGGGTCTTTAAAGAGGTAAATAAGGTC
ATTAGGATAGACCCTAATTCAATATGACTGATGATCATAAAAGAAAGAGGCGAGTAGGGCACAAACAGGCACAAAGG
GAGACCATAAGGAGACACAGAGGAAGGACAACCTCTTTACAAGCTAAGAAAGAGAGGGCCTCAGAAGAAACCAACCC
TGCCAACACCTTGATCTTGGACTTCCAGCCTCCAAAACCTATGAGAAATAAATTTCTATTGTTTAAAGTCACCCAGT
CCATGGTACTTTGTTAGGCAGCCCTGGCAAATGAATCAAAGACCCATTTCCTGTTCCCTCTCCCCACCACTACTGTT
TTCTACTGTAATCTGAAGCTTCAACAAAAGGCTTACCTGGTAAGAATATTCAGCTGGTCTGGGTCTCTCAAGACTC
CAATAGACACTCTTAAAGAAGGATTGCTGATGGATTGATAGTGAAACCATTAGATCATTGAATTCCTCTGGAATT
AGAAAACCAGAGAGTCCCATTTTAAAGAAATTAGATATTTAATATAGCATTGTGTGTTCTATTTTAGTAACAGCAG
AATCTCTTGACATTACACAACCTCAGTGAAACAACATCATTTAAGCCAAAATATCTCCCAACTGACTGATAGACTC
TGAGCACTAATATCATAGTGCTGTGATGATGGACAATTACATAGTACCGATAACAGCCATGCACTGTGCAAGCA
TGCCCTTCTGCACAGGAGAGCAAGGCACCTTGCAAGTAGTGATCTATGCCAGCAAAACATCATTTTGAGACAAACAT
TTTTGTGGCAGATGTTTTTCTAAAAAGTACTATATCATCCAAGAAATATTTGAGTAAATCCCTTGTTCTTTTG
GGTGACATTAACCTGACATTTGCTTTTTTTTCAAGACCTAATAGAAAAATAAGAAAGCCATAATGTATTTAGAAACA
GGAATCCTCAGAGCAATTCTCTGTATTCTCATATAATTTCAATGTAAACAGAAAACATATTGATGTGTTGGTGA
TAGGCTTGAATTATTAAAAACTTCAAAAACAAAA

662/2777
FIGURE 582

MTTQLPAYVAILLFYVSRASCQDTFIAAVYEHAAILPNATLTPVSREEALALMNRNLDILEGAITSAADQGAHI I
VTPEDAIYGWNFNDRDSLYPELEDIPDPEVNWIPCNRRNRFGQTPVQERLSCLAKNNSIYVVANIGDKKPCDTS DP
QCPDGRYQYNTDVVFD SQGKLVARYHKQNLFMGENQFNVPKEPEIVTFNTTFGSFGIFTCFDILFHDPAVTLVK
DFHVDTIVFPTAWMNVLP HLSAVEFHSAWAMGMRVNFLASNIHYP SKKMTGSGIYAPNSSRAFH YDMKTEEGKLL
LSQLDSHP SHSAVVNWTSYASSIEALSSGNKEFKGTVFFDEFTFVKLTGVAGNYTVCQKDL CCHLSYKMS ENIPN
EVYALGAFDGLHTVEGRYYLQICTLLKCKTTNLNTCGDSAETA STRFEMFSLSGTFGTQYVFPEVLLSENQLAPG
EFQVSTDGRLFS LKPTSGPVLTVTLFGRLYEKD WASNASSGLTAQARIIMLIVIAPIVCSLSW

663/2777
FIGURE 583

CTCTCGAGCCTGCTGCCTGCTCCCCGCCCCACCCAGCCATGGTGGTTTCTGGAGCGCCCCAGCCCTGGGTGGGG
GCTGTCTCGGCACCTTCACCTCCCTGCTGCTGCTGGCGTCGACAGCCATCCTCAATGCGGCCAGGATACCTGTTC
CCCCAGCCTGTGGGAAGCCCCAGCAGCTGAACCGGGTTGTGGGCGGCGAGGACAGCACTGACAGCGAGTGGCCCT
GGATCGTGAGCATCCAGAAGAATGGGACCCACCACTGCGCAGGTTCTCTGCTCACCAGCCGCTGGGTGATCACTG
CTGCCCCACTGTTTCAAGGACAACCTGAACAAACCATACTGTTCTCTGTGCTGCTGGGGGCTGGCAGCTGGGGA
ACCCTGGCTCTCGGTCCCAGAAGGTGGGTGTTGCCTGGGTGGAGCCCCACCCTGTGTATTCTTGAAGGAAGGTG
CCTGTGCAGACATTGCCCTGGTGCCTCTCGAGCGCTCCATACAGTTCTCAGAGCGGGTCTTGGCCATCTGCCTAC
CTGATGCCTCTATCCACCTCCCTCCAAACACCCACTGCTGGATCTCAGGCTGGGGGAGCATCCAAGATGGAGTTC
CCTTGCCCCACCCTCAGACCCTGCAGAAGCTGAAGGTTCTATCATCGACTCGGAAGTCTGCAGCCATCTGTACT
GGCGGGGAGCAGGACAGGGACCCATCACTGAGGACATGCTGTGTGCCGGCTACTTGGAGGGGGAGCGGGATGCTT
GTCTGGGCGACTCCGGGGGCCCCCTCATGTGCCAGGTGGACGGCGCTGGCTGCTGGCCGGCATCATCAGCTGGG
GCGAGGGCTGTGCCGAGCGCAACAGGCCCGGGGTCTACATCAGCCTCTCTGCGCACCGCTCCTGGGTGGAGAAGA
TCGTGCAAGGGGTGCAGCTCCGCGGGCGCGCTCAGGGGGGTGGGGCCCTCAGGGCACCGAGCCAGGGCTCTGGGG
CCGCCGCGCGCTCCTAGGGCGCAGCGGGACGCGGGGCTCGGATCTGAAAGCGGCCAGATCCACATCTGGATCTG
GATCTGCGGCGGCCCTCGGGCGGTTTCCCCCGCCGTAAATAGGCTCATCTACCTCTACCTCTGGGGGCCCCGGACGG
CTGCTGCGGAAAGGAAACCCCTCCCCGACCCGCCCCGACGGCCTCAGGCCCGCCTCCAAGGCATCAGGCCCCGC
CCAACGGCCTCATGTCCCCGCCCCACGACTTCCGGCCCCGCCCCGGGCCCCAGCGCTTTTGTGTATATAAATGT
TAATGATTTTTATAGGTATTTGTAACCCTGCCCACATATCTTATTTATTCTCCAATTTCAATAAATTATTTATT
CTCCAAAAAAAAAAAAAAAAAAAAAAAAAATAAAAAAAAAAACAAAAAAAAAAAAA

664/2777
FIGURE 584

MVVS GARPALGGGCLGTFTSLLLLASTAILNAARIPVFPACGKPQQLNRVVGGEDSTDSEWPWIVSIQKNGTHHC
AGSLLTSRWVITAAHCFKDNLNKPYLFSVLLGAWQLGNPGSRSQKVGVAWVEPHPVYSWKEGACADIALVRLERS
IQFSERVLPICLPDASIHLPNTHCWISGWGSIQDGVPLPHPQTLQKLKVP IIDSEVCSHLYWRGAGQGPIEDM
LCAGYLEGERDACLGDSGGPLMCQVDGAWLLAGIISWGEGCAERNRPGVYISLSAHRSWVEKIVQGVQLRGRAQG
GGALRAPSQSGAAARS

665/2777
FIGURE 585

ACCACTGCTGGCTTTTTGCTGTAGCTCCACATTCCTGTGCATTGAGGGGTAAACATTAGGCTGGGAAGATGACAA
AACTTGAAGAGCATCTGGAGGGAATTGTCAATATCTTCCACCAATACTCAGTTCGGAAGGGGCATTTTGACACCC
TCTCTAAGGGTGAGCTGAAGCAGCTGCTTACAAAGGAGCTTGCAAACACCATCAAGAATATCAAAGATAAAGCTG
TCATTGATGAAATATTCCAAGGCCTGGATGCTAATCAAGATGAACAGGTCGACTTTCAAGAATTCATATCCCTGG
TAGCCATTGCGCTGAAGGCTGCCCATTACCACACCCACAAAGAGTAGGCTAGCTCTCTGAAGGCTTTTTACCCAGC
AATGTCCTCAATGAGGGTCTTTTCTTCCCTCACCAAACCCAGCCTTGCCCGTGGGGAGTAAGAGTTAATAAAC
ACACTCACGAAAAGTT

666/2777
FIGURE 586

MTKLEEHLEGIVNIFHQYSVRKGHFDTLKSGELKQLLTKELANTIKNIKDKAVIDEIFQGLDANQDEQVDFQEFI
SLVAIALKAAHYHKE

667/2777
FIGURE 587

GTCCAAACACACACATCTCACTCATCCTTCTACTCGTGACGCTTCCCAGCTCTGGCTTTTGTAAAGCAAAGATGA
GCAACACTCAAGCTGAGAGGTCCATAATAGGCATGATCGACATGTTTCACAAATACACCAGACGTGATGACAAGA
TTGACAAGCCAAGCCTGCTGACGATGATGAAGGAGAACTTCCCCAACTTCCTTAGTGCCTGTGACAAAAAGGGCA
CAAATTACCTCGCCGACGTCTTTGAGAAAAAGGACAAGAATGAGGATAAGAAGATTGATTTTTCTGAGTTTCTGT
CCTTGCTGGGAGACATAGCCACAGACTACCACAAGCAGAGCCATGGAGCAGCGCCCTGTTCCGGGGGCAGCCAGT
GACCCAGCCCCACCAATGGGCCTCCAGAGACCCAGGAACAATAAAATGTCTTCTCCCACCAG

668/2777
FIGURE 588

MSNTQAERSIIGMIDMFHKYTRDDKIDKPSLLTMMKENFPNFLSACDKKGTNYLADVFEKKDKNEDKKIDFSEF
LSLLGDIATDYHKQSHGAAPCSGGSQ

669/2777
FIGURE 589A

AGCGC¹ATGGAGCCAGAGGAGGAGGATGAACTAGGCTCAGGGCGGGATGTGGATTCCA²ACTCCAACGCGGACAGTG
AGAAATGGGTGGCAGGAGATGGTTTGGAGAAGACAGGAATTTTCTATCAAGGAGGC³AAACTTCACAGAGGGAAGTC
TGAAGCTAAAGATT⁴CAGACCACAAAGCGGGCTAAGAAACCCCCAAAGAATTTGGAGA⁵ACTATATATGTCCACCTG
AGATCAAGATCACCATCAAGCAGTCTGGGGACCAGAAGGTGTCCCGTGCTGGAAAAAATAGCAAAGCCACGAAGG
AGGAAGAAAGAAGCCACTCCAAAAAGAAGCTCCTCACAGCCAGTGACCTTGCAGCCAGTGACCTCAAAGGATTTT
AGCCACAGGCTTACGAAAGGCCCCAGAAACATTCAACTCTCCATTATGACACGGGCCTCCACAGGACTTCACCG
GTGACACCTTAA⁶AACCAAAGCACCAGCAAAAAAGCAGCAGCCAGAACCACATGGACTGGTCCACCAACTCTGACA
GCGGACCCGTC⁷ACTCAGAATTGCTTCATCAGTCCAGAGTCTGGCAGAGAAACTGCAAGCACCAGCAAGATCCCCG
CTCTTGAGCCCGTGGCTTCC⁸TTTGCAAAGGCCCAGGGTAAGAAAGGCAGTGCAGGGAACACGTGGAGTCAGTTGT
CTAACAATAACAAAGATCTGCTCTTGGGAGGTGTGGCTCCATCCCCAAGCAGCCACAGCTCACCAGCCCCACCCA
GCAGCTCTGCTGAGTGCAACGGGCTTCAGCCCTTGGTGGATCAAGATGGAGGAGGTACAAAGGAGCCCCCAGAAC
CACCTACGGTGGGCAGCAAGAAAAAGTCCAGTAAAAAAGATGTGATAAGTCAGACCATACCAAACCCAGACCTGG
ATTGGGTCAAGAATGCCCAGAAAGCATTTGACAATACAGAAGGGAAAAGGGAAGGTTATTCCGCAGATAGTGCCC
AAGAGGCATCACCAGCCAGGCAGAACGTGAGTTCCTGCCAGTAATCCTGAAAATGACTCAAGTCATGTCCGGATTA
CTATCCCCATCAAGGCACCCCTCTCTGGATCCAACCAACCATAAGAGGAAAAAAGACAGTCCATTAAAGCGGTGG
TGAAAAAGATCATGCCAGAGAAAGCCTTGGCTTCTGGAATCACCATGAGCAGTGAAGTAGTTAAACAGGATACTTT
CCA⁹ACTCTGAGGGGAATAAGAAGGATCCCCGTGTCCCTAAGTTGAGTAAATGATAGAGAATGAGTCCCCCTCAG
TTGGCCTTGAACTGGTGGAAATGCTGAGAAAGTTATCCCAGGAGGTGTGTCTAAGCCGCGGAAGCCACCCATGG
TCATGACACCTCCAACGTGCACAGATCACTCTCCATCCAGAAAGCTGCCAGAAATCCAGCATCCAAATTTGCTG
CAAAACGAAGGTGGACTTGCAGCAAAACCAAACCTAGCACCATGCTTCGAGAGGCAGTTATGGCCACCTCTGATA
AACTGATGCTGGAGCCCCCGTCTGCATATCCCATCACCCCATCCAGCCCTCTCTACACCAACACAGACAGTCTTA
CTGTGATCACTCCAGTCAAAAAGAAGCGGGGACGACCAAGAAGCAGCCTTTGCTCACAGTCGAGACGATT¹⁰CATG
AGGGA¹¹ACTTCCACCAGCCCCGTAGTCCCATCAGCCGAGAGTTTCTTGGCACTAAGAAAAGAAAGCGACGACGCA
ATTTAGCGAAGTTGGCCAGCTAGTGCCGGGAGAGGACAAACCCATGAGCGAGATGAAATTTCA¹²AGAAAGTTG
GAAAGCTCGGCGTGTTGGATAAGAAGACCATCAAACTATCAATAAGATGAAGACACTCAAGAGGAAAAACATCT
TGAATCAGATCTTGTCTGTTCAGCAGCGTTGCTCTGAAGGC¹³AAAAGCTCCCCCAGAGACCAGCCCTGGGGCAG
CAGCCATTGAAAGCAA¹⁴ACTGGGCAAGCAGATTAATGTGAGCAAGAGGGGAACCATCTACATTGGCAAGAAGCGGG
GCAGGAAGCCAAGAGCAGAGCTGCCACCCCCATCCGAAGAACCCAAAACAGCCATCAAGCACCCACAGGCTGTTT
CTAGCCAGCCGGATGTTCCAGCCGTGCCTTCCA¹⁵ACTTTTCAGTCACTTGTGGCGTCTTACACAGCAGCTATGCACC
CACTTTTCAACACAGTTAGGTGGGTCCAATGGCAACCTGAGCCCTGCCAGCACTGAAACCAATTTTTCAGAGTTGA
AAACTATGCCAAATCTCCAGCCCCATCAGTGTCTTCCAACCAA¹⁶AAACCCAAAAGGGAATACACAGTGGAACCTGGA
AGCTGTCTCCACCCAGACTGATGGCCA¹⁷ACTCCCCTTCACACCTGTGCGAGATTGGCTCCCTAAAGGAAATCACGC
TGTCCCCTGTGAGCGAGTCCCACAGTGAGGAGACGATCCCCAGCGACAGCGGCATTGGGACAGACAACAACAGCA
CTTCTGACCAAGCGGAGAAGAGCTCAGAATCCCGAAGGAGGTACTCTTTTGATTTCTGCTCCCTGGACAACCCGG
AGGCCATTCCGTCCGACACCAGCACAAAGAACCGGCATGGCCACCGGCAAAGCATCTCATTGTGGACA¹⁸ACTTTC
TGGCCACGAAAGCCTCAAGAAGCCAAAGCACAAAGAGGAAACGGAAAGCCTGCAAAACCGCGATGACCTCCAGT
TTCTGGCAGACCTGGAGGAGCTAATCACCAAGTTCCAAGTGTTCAGAATCTCCACCGGAGTTACACCTTCTACC
ACGAGAATCCATATCC¹⁹CAGCATTTTTCGGATTAATTTTGATCACTATTACCCGGTGCCATATATCCAGTATGACC
CGTTGCTCTATCTTCGTAGGACTTCAGACTTGAAGTCAAAGAAGAAGCGTGGTAGGCCTGCAAAAACCAATGACA
CCATGACAAAGGTGCCTTTT²⁰TACAAGGGTTCAGCTACCCTATTCCAGTGGAAGTTACTATGCACCTATGGAA
TGCCTTACACATCAATGCCTATGATGAACCTTGGTTATTACGGTCAGTACCCAGCTCCTTTGTACCTATCGCACA
CGCTTGGAGCAGCTTCCCCATT²¹CATGAGGCCAACAGTGCCACCACCTCAGTTCCACACAAACTCC²²CACATAAAGA
TGTCCGGTGCAGCTAAGCATAAAGCCAAGCATGGAGTACACCTGCAGGGACCTGTTAGCATGGGCTTGGTGACA
TGCAGCCTTCTCTGAACCTCCCAAGGTAGGCAGTGCCAGTCTGTCCAGTGGTGGCTCCATAAGAGGAAACACA
AACACAAGCATAAGCACAAGGAAGACCGGATCCTAGGGACCCATGACAACCTGAGTGGTCTTTT²³TGCAGGCAAAG
CCACAGGCTTCTCCAGCCACATCCTGAGCGAGCGGCTGAGTAGCGCAGACAAAGAGCTCCCGCTGGTGAGTGAGA
AGAACAAGCATAAGGAGAAACAGAAGCACCAGCACAGCGAAGCCGGCCACAAAGCTTCTAAGAACA²⁴ACTTTGAGG
TGGACACCTGTCTACACTGTCACTTTCCGACGCCCAGCATTGGACACAGGCCAAGGAAAAAGGAGACTT²⁵GAGCA

670/2777
FIGURE 589B

GTGAGCCTGTGGACTCA¹TGCACGAAAAGATACTCTGGCAGTGGCGGGGATGGTGGCAGCACGAGATCGGAGAACC
TGGACGTGTTTCAGTGAAATGAACCC²TTCGAATGACAAGTGGGACAGTGACGTGAGTGGGAGTAAAAGGAGGAGCT
ATGAAGGCTTTTGGAACGTACAGGGAAAAGGACATCCAAGCCTTCAAGATGAACCGCAAGGAGAGAAGTTCTTATG
ACTCCTCCATGTCTCCAGGGATGCCAAGTCCCCACTTAAAAAGTGGACCAGACAGCAGTGCATAGTAAGAACGAAG
GCTCAGTGGCCACCATGATGACCAGGAAGAAGCCAGCCGCGAGTTGACAGTGTTACAATTCCACCAGCCCCAGTGT
TATCTCTCCTTGCTGCATCTGCAGCAACGTCGGATGCAGTCGGCTCCTCCCTGAAGAAGAGGTTCAAGCGGCGGG
AGATCGAAGCCATCCAGTGCGAAGTGC³GGAAGATGTGCAACTACACCAAGATCCTGTCCACCAAGAAGAACCTGG
ACCACGTGAACAAGATCCTGAAGGCCAAGCGGCTGCAGAGACAATCAAAAACAGGCAACAAC⁴TTCTGTGAAGAAGA
GGCGCGGGCGTCCCAGGAAGCAGCCCACCCAGTT⁵CGATGAGGACTCCAGAGACCAAATGCCGGTGCTGGAAAAAT
GCATCGACCTGCCCAGCAAAAGAGGCCAGAAGCCCAGCCTGAGCCCGCTGGTGTGGAGCCCGCCGCCAGCCAAG
ACACCATCATGGCCACCATCGAGGCGGT⁶CATCCACATGGCCCGGGAGGCGCCGCCCTGCCCCCGCCACCGCCGC
CGCCCCTGCCGCCACCGCCGCCACACCCCTGCCCCCGCCACCCCTCTACCCAAGACCCCCCGAGGCGGAAAGA
GGAAACACAAACCGCAGGCCCCCGCTCAGCCCCCAGCAGT⁷CGCCCCCGCAGCAGCCCCCTTCCCCAGGAAGAGG
AGGTGAAAGCCAAAAGGCAGAGGAAGTCCCGAGGGAGTGAGAGCGAGGTCCTTCCCTTAGGGCGGGTCTGGGCGTC
TGCACCTGGGGCCTAGGGAACTGACACGTGGGAAGCGCAGTGAGCCGGGGCGGGGGCGGAATCCCCCGCTGCAGG
GACACCCACGCCCTTCTCTCCAGAAGCCGGGCAGGCAGAATCCGGCCAGACGACGGGGCTGAGCCATCAGGAGCT
CTTGGGAAAGCAAAGCAGGGAGACACCTTCAGAAGAAGCTTGTCTGAGCTTACCGCAGCTCCCACCACGCGGCG
CTTCAGTACGGCTGGATCCTCCGCAGGCGAGCGGAAGGCCCCCAGGAGGAGCAGGCTGGTGGCACTCTCCTGACC
TCACGCTGCCAAGGTGCGCCCTCGACTCCCGATTTCA⁸TTTGCTGGCCAGGAAAATCGAAAGGGAAACACCCTCAA
TTAGGAAACATTCCAAGGGGAGAAAAGCTGCAAATTGCTCAACTGGCATTGCTGTAAACCGTTCCATTTAATTGG
TTTTTATTTCTTTTGATTTTCAAGCTCTGCTAAGCTTTGGGGTACCAACGTCATCTTCAGGTGACCTGAATCTTT
CCCTTAACCGTACAGTTTCTCGATGGAATTGTGTGATCAGAAGGTGGAATTCTAGTGATAGGCGACCTCAGACCC
GCATT⁹CATGTTCTGTGTGCCTCTTCTATTGCACATACACTGATTTTTAGCATTGTCTATTCTATTTTTCTTTG
CCCATTGTACTTCCATATATCTTTTCATTAACTTACTTGCTGCCTTTTTTTTTTTCTTGGTACACATTTAAATAAA
GTAATCCTTAACCTGTGCTGTAAAGTTCA¹⁰CCCTTGGCATGCTGTTCCAAGAACCTGGGTTTGAATCCCAATCGTT
GTGAAACATACTCAGTATTGATAAAACCTTTTTAATAAGTGATGCAGAGCAGCCAAGGATATGTTGACCCAGATG
TCAACCAGGCTATTTTTATACTTAAAAATGTCAGCAGAGCATAGGCAGAATAAAATGGTTTTAAATACCCACAG
CAAATAGAGTAACTGACAAACCA¹¹AAAACTGAAACCCAGACCCACCAGAAAGACAAGTGTCTAGCAATGCCT
TGGTACCTGATCTTTTTTCATTCAAATAATTGTCATAGGTTGTTT

671/2777
FIGURE 590

MEPEEEDELGSGRDVDSNSNADSEKWVAGDGLLEEQEF SIKENFTEGSLK LKIQTTKRAKKPPKNLENYICPPEI
KITIKQSGDQKVS RAGKNSKATKEEERSHSHKKLLTASDLAASDLKGFQPQAYERPQKHSTLHYDTGLPQDFTGD
TLKPKHQKSSSQNHMDWSTNSDSGPVTQNCFISPESGRETASTSKIPALEPVASF AQAQGGKGSAGNTWSQLSN
NNKDLLLGGVAPSPSSHSPAPPSSSAECNGLQPLVDQDGGGTKEPPEPPTVGSKKKSSKKDVISQTI PNPDLDW
VKNAQKAFDNTTEGKREGYSADSAQEASPARQNVSSASNPENDSSHVRITIP IKA PSLDPTNHKRKKRQSIKAVVE
KIMPEKALASGITMSSEVVNRILSNSEGNKKDPRVPKLSKMIENESPSVGLETGGNAEKVIPGGVSKPRKPPMVM
TPPTCTDHSPSRKLP EIQHPKFAAKRRWTC SKPKPSTMLREAVMATSDKLMLEPPSAYPI TPSSPLYTNTDSLTV
ITPVKKKRGRPKKQPLLT VETIHEGTSTSPVSPISREFPGTKKRKRRRN LAKLAQLVPGEDKPMSEMKFHKKV GK
LGVLDKTTIKTINKMKT LKRKNILNQILSCSSSVALKAKAPPETSPGAAAIESKL GKQINVSKRGTIYIGKKRGR
KPRAELPPPSEEPKTAIKHPRPVSSQPDVPAVPSNFQSLVASSPAAMHPLSTQLGGSNGNLSPASTETNFSELKT
MPNLQPI SALPTKTQKGIHSGTWKLSPPRLMANSPSHLCEIGSLKEITLSPVSESHSEETIPSDSGIGTDNNSTS
DQAEKSSESRRRYSFDFCSLDNPEAIPSDTSTKNRHGHRQKHLIVDNFLAHESLKKPKHKRKRKSLQNRDDLQFL
ADLEELITKFQVFRISHRSYTFYHENPYPSIFRINF DHYYVPVYIQYDPLLYLRRTSDLKSKKKRGRPAKTNDTM
TKVPFLQGF SYPIPSGSYYPYGMPTSM PMMNLGYYGQYPAPLYLSHTLGAASPFMRPTVPPPQFHTNSHIKMS
GAAKHKAKHGVHLQGPVSMGLGDMQPSLNPPKVGSASLSSGR LHKRKHKKHKKHKKEDRILGTHDNL SGLFAGKAT
GFSSHILSERLSSADKELPLVSEKNKHKEKQKHQHSEAGHKASKNNFEVDTLSTLSLSDAQHWTQAKEKGDLSSE
PVDSC TKRYSGSGDGGSTRSENLDVFSEMNPSNDKWDSDVSGSKRRSYEGFGTYREKDIQAFKMNRKERS SYDS
SMSPGMPSPHLKVDQTAVH SKNEGSVPTMMTRKKPAAVDSVTIPPAPVLSLLAASAATSDAVGSSLKKRFRREI
EAIQCEVRKMCNYTKILSTKKNLDHVNKILKAKRLQRQSKTGNNFVKKRRGRPRKQPTQFDEDSRDQMPVLEKCI
DLPSKRGQKPSLSPLVLEPAASQDTIMATIEAVIHMAREAPLPPPPPPPLPPPPPPPLPPPPPLPKTPRGGKRK
HKPQAPAQPPQOSPPQOPLPQEEEVKAKRQRKSRGSESEVLP

672/2777
FIGURE 591

CACTGCTTATTAAAGTACACTATTCAGGCATATCATGTAGGTTTACTTTCTGTGTTTCTAGAGACCAAGAAGCGG
GACGTTACCA**ATG**GGAAGAAAATCGCTGTACCTTCTGATTGTGGGGATCCTCATAGCATATTATATTTATACGCC
TCTCCCAGATAACGTTGAGGAGCCATGGAGAATGATGTGGATAAACGCACATCTGAAAACATACAAAATTTGGC
TACATTTGTGGAGCTCCATGGGAGTTCCATTTTTATGGATTCCTTTAAGGTTGTGCGGAGCTTTGATGAAGTCCC
ACCAACCTCAGATGAAAATGTCACTGTGACTGAGACAAAATTCAACAACATTCTTGTTGCGGTATATGTGCCAAA
GAGAAAGTCTGAAGCACTAAGAAGGGGGTTGTTTTACATCCATGGTGGAGGCTGGTGCGTGGAAGTGCTGCTCT
AAGTGGTTATGACTTGCTGTCAAGATGGACAGCAGACAGACTTGATGCTGTCGTCGTATCAACCAACTACAGATT
AGCACCTAAGTATCATTTCCTCAATTCAATTTGAAGATGTATATAATGCCTTAAGGTGGTTCTTACGTAAAAAAGT
TCTTGCAAATATGGTGTGAACCCTGAGAGAATCGGTATTTCTGGAGATAGTGCAGGAGGGAATTTAGCTGCAGC
AGTGACTCAACAGCTCCTTGATGACCCAGATGTCAAGATCAAACCTCAAGATCCAGTCTTTAATTTATCCTGCCCT
TCAGCCTCTTGATGTAGATTTACCGTCATATCAAGAAAATTCAAATTTTCTATTTCTATCCAAATCACTCATGGT
CAGATTCTGGAGTGAATATTTTACCACTGATAGATCACTTGAAAAGCCATGCTTTCCAGACAACATGTACCTGT
GGAATCAAGTCATCTCTTCAAATTTATTAATTGGAGTTCCTGCTCCCTGAGAGGTTTATAAAAGGACATGTTTA
TAACAATCCAAATTATGGCAGTTCTGAGCTGGCTAAAAAATATCCAGGGTTCCTAGATGTGAGGGCAGCCCCTTT
GTTGGCTGATGACAACAAATTACGTGGCTTACCCCTGACCTATGTCATCACCTGTCAATATGATCTCTTAAGAGA
TGATGGACTCATGTATGTCACCCGACTTCGCAACACTGGGGTTCAGGTGACTCATAACCATGTTGAGGATGGATT
CCATGGAGCATTTCATTTCTGGGACTTAAAATTAGTCACAGACTTATAAATCAGTATATTGAGTGGCTAAAGGA
AAATCTAT**AGT**AAAACATGTAGCTATAACATATTTTAAAAATAAAATCTGAAAACCTCAGAAAATTTTCGATTAGA
AATTGGTCTTTCTTAGAATGGTCTAGTTAAGTTCACATGTAGCATAATTCTTAAATAGGCACTTTTCTGTTTTT
TTTTTCTTACTGTGGGATTTCAATTTCTACATTGTCTATCTGCTTTTTTCGGAGATTTTCTTCTTACAC
TGTTAATCTTATTTTAAAAAATATTACATCTTGTATACCTTATTTTTGTGAGTTGGCTACTATTTACGATGCAA
GAGAATAAATGTGAGCAAAGATTG

673/2777
FIGURE 592

MGRKSLYLLIVGILIAYYIYTPLPDNVEEPWRMMWINAHLKTIQNLATFVELHGSSIFMDSFKVVGSFDEVPPTS
DENVTVTETKFNNILVRVYVPKRKSEALRRGLFYIHGGGWCVGSAALSGYDLLSRWTADRLDAVVVSTNYRLAPK
YHFPIQFEDVYNALRWFLRKKVLAKYGVNPERIGISGDSAGGNLAAAVTQQLDDPDVKIKLKIQS LIYPALQPL
DVDLPSYQENSNFLFLSKSLMVRFWSEYFTTDRSLEKAMLSRQHVPVESH LFKFINWSSLLPERFIKGHVYN NP
NYGSSELAKKYPGF LDVRAAPLLADDNKL RGLPLTYVITCQYDLLRDDGLMYVTRLRNTGVQVTHNHVEDGFHGA
FSFLGLKISHRLINQYIEWLKENL

674/2777
FIGURE 593A

TTAAGGAAATCCGGGCTGCTCTTCCCCATCTGGAGTGGCTTTCCCCACATCGGCTCGTAAACTGATTATGAAAC
ATACGATGTTAATTTCGGAGCTGCATTTCCCAGCTGGGCACTCTCGCGCGCTGGTCCCCGGGGCCTCGCCCCCAC
CCCCTGCCCTTCCCTCCCGCTCCTGCCCCCATCCTCCACCCCCGCGCTGGCCACCCGCTCCTTGGCAGCCT
CTGGCGGCAGCGCGCTCCACTCGCCTCCCGTGCTCCTCTCGCCCATGGAATTAATTCTGGCTCCACTTGTGTGCTC
GGCCCAGGTTGGGGAGAGGACGGAGGGTGGCCGACGCGGTTCCTGAGTGAATTACCCAGGAGGGACTGAGCACA
GCACCAACTAGAGAGGGGTGAGGGGTGCGGGACTCGAGCGAGCAGGAAGGAGGCAGCGCCTGGCACCAGGGCTT
TGACTCAACAGAATTGAGACACGTTTGTAATCGCTGGCGTGCCCCGCGCACAGGATCCCAGCGAAAATCAGATTT
CCTGGTGAGGTTGCGTGGGTGGATTAATTTGGAAAAAGAACTGCCTATATCTTGCCATCAAAAACTCACGGAG
GAGAAGCGCAGTCAATCAACAGTAACTTAAGAGACCCCCGATGCTCCCCTGGTTTAACTTGTATGCTTGAAAT
TATCTGAGAGGGAATAAACATCTTTTCTTCTCCCTCTCCAGAAGTCCATTGGAATATTAAGCCCAGGAGTTGC
TTTGGGGATGGCTGGAAGTGCAATGTCTTCCAAGTTCTTCTTAGTGGCTTTGGCCATATTTTTCTCCTTCGCCCCA
GGTTGTAATTGAAGCCAATTCTTGGTGGTCGCTAGGTATGAATAACCCTGTTTCAGATGTCAGAAGTATATATTAT
AGGAGCACAGCCTCTCTGCAGCCAATGGCAGGACTTCTCAAGGACAGAAGAACTGTGCCACTTGTATCAGGA
CCACATGCAGTACATCGGAGAAGGCGCGAAGACAGGCATCAAAGAATGCCAGTATCAATTCCGACATCGACGGTG
GAACTGCAGCACTGTGGATAACACCTCTGTTTTTGGCAGGGTGATGCAGATAGGCAGCCGCGAGACGGCCTTCAC
ATACGCCGTGAGCGCAGCAGGGGTGGTGAACGCCATGAGCCGGGCGTGCCGCGAGGGCGAGCTGTCCACCTGCGG
CTGCAGCCGCGCGCGCGCCCCAAGGACCTGCCGCGGGACTGGCTCTGGGGCGGGCTGCGGCGACAACATCGACTA
TGGCTACCGCTTTGCCAAGGAGTTCTGTGGACGCCGCGAGCGGGAGCGCATCCACGCCAAGGGCTCCTACGAGAG
TGCTCGCATCCTCATGAACCTGCACAACAACGAGGCCGCGCGCAGGACGGTGTACAACCTGGCTGATGTGGCCTG
CAAGTGCCATGGGGTGTCGGGCTCATGTAGCCTGAAGACATGCTGGCTGCAGCTGGCAGACTTCCGCAAGGTGGG
TGATGCCCTGAAGGAGAAGTACGACAGCGCGGCGGCCATGCGGCTCAACAGCCGGGGCAAGTTGGTACAGGTCAA
CAGCCGCTTCAACTCGCCCACCACACAAGACCTGGTCTACATCGACCCAGCCCTGACTACTGCGTGCGCAATGA
GAGCACCGGCTCGCTGGGCACGCAGGGCCGCTGTGCAACAAGACGTGCGAGGGCATGGATGGCTGCGAGCTCAT
GTGCTGCGGCCGTGGGTACGACCAGTTCAAGACCGTGACAGCGGAGCGCTGCCACTGCAAGTTCCACTGGTGCTG
CTACGTCAAGTGCAAGAAGTGACCGGAGATCGTGGACCAGTTTGTGTGCAAGTAGTGGGTGCCACCCAGCACTCA
GCCCCGCTCCCAGGACCCGCTTATTTATAGAAAGTACAGTGATTCTGGTTTTTGGTTTTTGTAGAAATATTTTTTAT
TTTTCCCCAAGAATTGCAACCCGAACCATTTTTTTTTCTGTTACCATCTAAGAACTCTGTGGTTTATTATTAATA
TTATAATTATTATTTGGCAATAATGGGGGTGGGAACCACGAAAAATATTTATTTTGTGGATCTTTGAAAAGGTAA
TACAAGACTTCTTTTGGATAGTATAGAATGAAGGGGGAAATAACACATACCCTAACTTAGCTGTGTGGGACATGG
TACACATCCAGAAGGTAAAGAAATACATTTTCTTTTTCTCAAATATGCCATCATATGGGATGGGTAGGTTCCAGT
TGAAAGAGGGTGGTAGAAATCTATTCACAATTCAGCTTCTATGACCAAATGAGTTGTAAATTCTCTGGTGAAG
ATAAAAGGTCTTGGGAAAAACAAAACAAAACAAACCTCCCTTCCCCAGCAGGGCTGCTAGCTTGCTTTCTG
CATTTTCAAAATGATAATTTACAATGGAAGGACAAGAATGTCATATTCTCAAGGAAAAAGGTATATCACATGTC
TCATTCTCCTCAAATATTCCATTTCAGACAGACCGTCATATTCTAATAGCTCATGAAATTTGGGCAGCAGGGAG
GAAAGTCCCCAGAAATTAATAAATTTAAACTCTTATGTCAAGATGTTGATTTGAAGCTGTTATAAGAATTGGGA
TTCCAGATTTGTAAAAAGACCCCCAATGATTCTGGACACTAGATTTTTTGTGTTGGGGAGGTTGGCTTGAACATAA
ATGAAATATCCTGTATTTTCTTAGGGATACTTGGTTAGTAAATTATAATAGTAGAAATAATACATGAATCCCATT
CACAGGTTTCTCAGCCCCAAGCAACAAGGTAATTGCGTGCCATTACAGCACTGCACCAGAGCAGACAACCTATTTGA
GGAAAAACAGTGAAATCCACCTTCTCTTACACTGAGCCCTCTCTGATTCTCCTCGTGTGTGATGTGATGCTGG
CCACGTTTCCAAACGGCAGCTCCACTGGGTCCCTTTGGTTGTAGGACAGGAAATGAAACATTAGGAGCTCTGCT
TGGAACACAGTTCACTACTTAGGGATTTTTGTTTCTTAAACTTTTTATTTTGGAGAGCAGTAGTTTTCTATGTTT
TAATGACAGAATTTGGCTAATGGAATTCACAGAGGTGTTGCAGCGTATCACTGTTATGATCCTGTGTTTAGATTA
TCCACTCATGCTTCTCCTATTGTACTGCAGGTGTACCTTAAACTGTTCCAGTGTACTTGAACAGTTGCATTTA
TAAGGGGGGAAATGTGGTTTAAATGGTGCCGTGATATCTCAAAGTCTTTTGTACATAACATATATATATATACAT
ATATATAAATATAAATATAAATATATCTCATTGCAGCCAGTGATTTAGATTTACAGCTTACTCTGGGGTTATCTC
TCTGTCTAGAGCATTGTTGTCCTTCACTGCAGTCCAGTTGGGATTATTCCAAAAGTTTTTTGAGTCTTGAGCTTG
GGCTGTGGCCCCGCTGTGATCATACCTGAGCACGACGAAGCAACCTCGTTTCTGAGGAAGAAGCTTGAGTTCTG
ACTCACTGAAATGCGTGTTGGGTGAAGATATCTTTTTTCTTTTCTGCCTCACCCCTTTGTCTCCAACCTCCAT

675/2777
FIGURE 593B

TTCTGTTCACTTTGTGGAGAGGGCATTACTTGTTTCGTTATAGACATGGACGTTAAGAGATATTCAAAACTCAGAA
GCATCAGCAATGTTTCTCTTTTCTTAGTTCAATTCTGCAGAATGGAAACCCATGCCTATTAGAAATGACAGTACTT
ATTAATTGAGTCCCTAAGGAATATTCAGCCCACTACATAGATAGCTTTTTTTTTTTTTTTTTTTTTTTAATAAGG
ACACCTCTTTCAAACAGGCCATCAAATATGTTCTTATCTCAGACTTACGTTGTTTTAAAAGTTTGAAAGATAC
ACATCTTTTCATACCCCCCTTAGGAGGTTGGGCTTTCATATCACCTCAGCCAAGTGGGCTCTTAATTTATTGC
ATAATGATATCCACATCAGCCAAGTGGGCTCTTTAATTTATTGCATAATGATATTCACATCCCCTCAGTTGCAG
TGAATTGTGAGCAAAAGATCTTGAAAGCAAAAAGCACTAATTAGTTTAAAATGTCACCTTTTTTGTTTTTATTAT
ACAAAAACCATGAAGTACTTTTTTTATTTGCTAAATCAGATTGTCCTTTTTAGTGACTCATGTTTATGAAGAGA
GTTGAGTTTAACAATCCTAGCTTTTAAAAGAACTATTTAATGTAAAATATTCTACATGTCATTCAGATATTATG
TATATCTTCTAGCCTTTATTCTGTACTTTAATGTACATATTCTGTCTTGCGTGATTTGTATATTTCACTGGTT
TAAAAACAAACATCGAAAGGCTTATTCCAAATGGAAGATAGAATATAAAATAAAACGTTACTTGTAACAAAAA
AAA

676/2777
FIGURE 594

MAGSAMSSKFFLVALAIAFFSFAQVVIEANSWWSLGMNPNVQMSEVYIIIGAQPLCSQLAGLSQGQKKLCHLYQDHM
QYIGEGAKTGIKECQYQFRHRRWNCSTVDNTSVFGRVMQIGSRETAFTYAVSAAGVVNAMSACREGELSTCGCS
RAARPKDLPRDWLWGGCGDNIDYGYRFAKEFVDARERERIHAAGSYESARILMNLHNNEAGRRTVYNLADVACKC
HGVSGCSLKTCLWLQADFRKVGDALKEKYDSAAAMRLNSRGKLVQVNSRFNSPTTQDLVYIDPSPDYCVRNEST
GSLGTQGRLCNKTSEGMDGCELMCCGRGYDQFKTVQTERCHCKFWCCYVKCKKCTEIVDQFVCK

677/2777
FIGURE 595

CCTTTAGAGGAGCCTGAGAAGAGGCAGAGGAAGGGCGAAACATGGCTGCTCTAGGAGTCCAGAGTATCAACTGGC
AGAAGGCCTTCAACCGACAAGCGCATCACACAGACAAGTTCTCCAGCCAGGAGCTCATCTTGCGGAGAGGCCAAA
ACTTCCAGGTCTTAATGATCATGAACAAAGGCCTTGGCTCTAACGAAAGACTGGAGTTCATTGACACCACAGGGC
CTTACCCCTCAGAGTCGGCCATGACGAAGGCTGTGTTTCCACTCTCCAATGGCAGTAGTGGTGGCTGGAGTGC GG
TGCTTCAGGCCAGCAATGGCAATACTCTGACTATCAGCATCTCCAGTCCTGCCAGCGCACCCATAGGACGGTACA
CAATGGCCCTCCAGATCTTCTCCAGGGCGGCATCTCCTCTGTGAACTTGGGACGTTTCACTGCTTTTTTAACC
CCTGGCTGAATGTGGATAGCGTCTTTATGGGTAACCATGCTGAGAGAGAAGAGTATGTTTCAGGAAGATGCCGGCA
TCATCTTTGTGGGAAGCACAAACCGAATTGGCATGATTGGCTGGAACCTTGGACAGTTTGAAGAAGACATTCTCA
GCATCTGCCTCTCAATCTTGGATAGGAGTCTGAATTTCCGCCGTGACGCTGCTACTGATGTGGCCAGCAGAAATG
ACCCCAAATACGTTGGCCGGGTGCTGAGTGCCATGATCAATAGCAATGATGACAATGGTGTGCTTGCTGGGAATT
GGAGCGGCACCTTACACCGGTGGCCGGGACCCAAGGAGCTGGGACGGCAGCGTGGAGATCCTCAAAAATTGGAAAA
AATCTGGCTTCAGCCCAGTCCGATATGGCCAGTGCTGGGTCTTTGCTGGGACCCTCAACACAGCGCTGCGGTCTT
TGGGGATTCTTCCCGGGTGATCACCAACTTCAACTCAGCTCATGACACAGACC GAAATCTCAGTGTGGATGTGT
ACTACGACCCCATGGGAAACCCCTGGACAAGGGTAGTGATAGCGTATGGAATTTCCATGTCTGGAATGAAGGCT
GGTTTGTGAGGTCTGACCTGGGCCCCCGTACGGTGGATGGCAGGTGTTGGATGCTACCCCGCAGGAAAGAAGCC
AAGGGGTGTTCCAGTGCGGCCCGCTTCGGTCATTGGTGTTTCGAGAGGGTGATGTGCAGCTGAACTTCGACATGC
CCTTTATCTTCGCGGAGGTTAATGCCGACCGCATCACCTGGCTGTACGACAACACCACTGGCAAACAGTGGAAGA
ATTCCGTGAACAGTCACACCATTTGGCAGGTACATCAGCACCAAGGCGGTGGGCAGCAATGCTCGCATGGACGTCA
CGGACAAGTACAAGTACCCAGAAGGCTCTGACCAGGAAAGACAAGTGTTCCAAAAGGCTTTGGGGAAACTTAAAC
CCAACACGCCATTTGCCCGACGTCTTCGATGGGTTTGGAAACAGAGGAACAGGAGCCAGCATCATCGGGGAAGC
TGAAGGTCGCTGGCATGCTGGCAGTAGGCAAAGAAGTCAACCTGGTCCTACTGCTCAAAAACCTGAGCAGGGGATA
CGAAGACAGTGACAGTGAACATGACAGCCTGGACCATCATCTACAACGGCAGCCTTGTACATGAAGTGTGGAAGG
ACTCTGCCACAATGTCCCTGGACCTGAGGAAGAGGCAGAACATCCCATAAAGATCTCGTACGCTCAGTATGAGA
GGTACCTGAAGTCAGACAACATGATCCGGATCACAGCGGTGTGCAAGGTCCCAGATGAGTCTGAGGTGGTGGTGG
AGCGGGACATCATCTCTGGACAACCCACCTTGACCCTGGAGGTGCTGAACGAGGCTCGTGTGCGGAAGCCTGTGA
ACGTGCAGATGCTCTTCTCCAATCCACTGGATGAGCCGGTGAGGGACTGCGTGCTGATGGTGGAGGGGAAGCGGCC
TGCTGTTGGGTAACCTGAAGATCGACGTGCCGACCCTAGGGCCCAAGGAGCGGTCCCGGGTCCGTTTTGATATCC
TGCCCTCCCGGAGTGGCACCAAGCAACTGCTCGCCGACTTCTCCTGCAACAAGTTCCCTGCAATCAAGGCCATGT
TGTCCATCGACGTAGCCGAATGAAGGGCGCTGGTGGCCTCCCGTACAACTTGGACAACACGGAGCAGGGAGAGC
TCACCATGGAATGAACCCCCCGCCATGCTGTCCGGCCTGGGAAACCTCTCCATCTCCCAAGGCTGCCAGACAT
GGACTCCGGGCTCCAGCACATCCCCCTCTCCTCTCCCCAGGTTGGGGCTGGGTCCACCCTGTCTATGACTTGA
TCACTTTTGCACATTCCCTGGCCGTTTCTCCCCAGAGCTGCCTGCTCTGTGAGCCCCACAGCCCTGCTCATTCCT
CACGCCCTTCAATGCTGCAGGATGGACTGGCCCTGACCCAGGGACTCTCAAACGGGATAACAGGAGAGAAGCTG
GTCTAGACTGTTTGTGATCCCCAACCTGCACGGGGCATTCTGCTTCTCTCAGGCCACCACAGAGGGCAGGG
GATGGTTAGTCACCTGCCCCAGCACTCACACCCTAACTCAAATAAATGTTAAATAAGTGCGATCACAC

678/2777
FIGURE 596

MAALGVQSINWQKAFNRQAHHTDKFSSQELILRRGQNFQVLMIMNKGLGSNERLEFIDTTGPYPSESAMTKAVFP
LSNGSSGGWSAVLQASNGNTLTISISSPASAPIGRYTALQIFSQGGISSVKLGTFILLFNPWLNVDSVFMGNHA
EREEYVQEDAGIIFVGSTNRIGMIGWNFGQFEEDILSICLSILDRSLNFRDAATDVASRNDPKYVGRVLSAMIN
SNDDNGVLAGNWSGTYTGGRDPRSWDGSVEILKNWKKSGFSPVRYGQCWVFAGTLNTALRSLGIPSRVITNFNSA
HDTDRNLSVDVYYDPMGNPLDKGSDSVWNFHVWNEGWFVRSDLGPPYGGWQVLDATPQERSQGVFQCGPASVIGV
REGDVQLNFDMPFIFAEVNADRI TWLYDNTTGKQWKNSVNSHTIGRYISTKAVGSNARMDVTDKYKYPEGSDQER
QVFQKALGKLKPNTPFATSSMGLETEEQEPSIIGKLKVAGMLAVGKEVNLVLLLKNLSRDTKTVTVNMTAWTII
YNGTLVHEVWKDSATMSLDPEEEAEHP IKISYAQYERYLKSDNMIRITAVCKVPDESEVVVERDIILDNPTLTLE
VLNEARVRKPVNVQMLFSNPLDEPVRDCVLMVEGSGLLLGNLKIDVPTLGPKERSRVRFDILPSRSGTKQLLADF
SCNKFP AIKAMLSIDVAE

679/2777
FIGURE 597

GGGTCTGTCCCATCCATCCTGACCTGTTCCATCTCAGCCCCAGGACTCAGTACTGCGGTTGCCAACACTGCTGC
CAGGCATGATGGATGGGCCACGTTCCGATGTGGGCCGTTGGGGTGGCAACCCCTTGAGCCCCCTACCACGCCAT
CTCCAGAGCCAGAGCCAGAGCCAGACGGACGCTCTCGCAGAGGAGGAGGCCGTTCTTCTGGGCTCGCTGCTGTG
GCTGCTGTTTCATGCCGAAATGCGGCAGATGACGACTGGGGACCTGAACCTCTGACTCCAGGGGTGAGGGTCCA
GCTCTGGCACTCGAAGACCTGGCTCCCGGGGCTCAGACTCCCGCCGGCCTGTATCCCGGGGACGCGGTGTCAATG
CAGCTGGAGATGGCACCATCCGAGAGGGCATGCTAGTAGTGACGGTGTGGACTTGCTGAGCTCGCGCTCGGACC
AGAACCGCCGAGAGCACCACACAGACGAGTATGAGTACGACGAGCTGATAGTGCGCCGCGGGCAGCCTTTCCATA
TGCTCCTCCTCTGTCCCGGACCTATGAATCCTCTGATCGCATCACCTTGAGTTACTCATCGGAAACAACCCCG
AGGTGGGCAAGGGCACGCACGTGATCATCCAGTGGGCAAGGGGGGAGTGGAGGCTGGAAGCCAGGTGGTCA
AGGCCAGTGGGCAGAACTCTGAACCTGCGGGTCCACACTTCCCCAACGCCATCATCGGCAAGTTTCAGTTCACAG
TCCGCACACAATCAGACGCTGGGGAGTTCCAGTTGCCCTTGACCCCGCAATGAGATCTACATCCTCTTCAACC
CCTGGTGGCCAGAGGACATTGTGTACGTGGACCATGAGGATTGGCGGCAGGAGTATGTTCTTAATGAGTCTGGGA
GAATTTACTACGGGACCGAAGCACAGATTGGTGAGCGGACCTGGAACACGGCCAGTTTGACCACGGGGTGTCTGG
ATGCCTGCTTATACATCCTGGACCGGCGGGGGATGCCATATGGAGGCCGTGGAGACCCAGTCAATGTCTCCCGGG
TCATCTCTGCCATGGTGAACCTCCCTGGATGACAATGGAGTCCCTGATTGGGAACCTGGTCTGGTGAATTACTCCCGAG
GCACCAACCCATCAGCGTGGGTGGGCAGCGTGGAGATCCTGCTTAGCTACCTACGCACGGGATATTCCGTCCCCCT
ATGGCCAGTGTCTGGGTCTTTGCTGGAGTGACCACCACAGTGCTGCGCTGCCTGGGTCTGGCCACCCGTAAGTCA
CCAACTTCAACTCCGCCCACGACACAGACACATCCCTTACCATGGACATCTACTTCGACGAGAACATGAAGCCCC
TGGAGCACCTGAACCATGATTCTGTCTGGAACCTCCATGTGTGGAACGACTGCTGGATGAAGAGGCCGGATCTGC
CCTCGGGCTTTGATGGGTGGCAGGTGGTGGATGCCACACCCCAAGAGACTAGCAGTGGCATCTTCTGTCTGCGGCC
CCTGCTCTGTGGAGTCCATCAAGAATGGCCTGGTCTACATGAAGTACGACACGCCTTTTCAATTTTTGCTGAGGTGA
ATAGTGACAAGGTGTACTGGCAGCGGCAGGATGATGGCAGCTTCAAGATTGTTTATGTGGAGGAGAAGGCCATCG
GCACACTCATTGTCAAAAGGCCATCAGCTCCAACATGCGGGAGGACATCACCTACCTCTATAAGCACCCAGAAG
GCTCAGACGCAGAGCGGAAGGCAGTAGAGACAGCAGCAGCCACGGCAGCAAACCCAATGTGTATGCCAACCGGG
GCTCAGCGGAGGATGTGGCCATGCAGGTGGAGGCACAGGACGCGGTGATGGGGCAGGATCTGATGGTCTCTGTGA
TGCTGATCAATCAGACAGCAGCCGCCGACAGTGAAACTGCACCTCTACCTCTCAGTCACTTTCTATACTGGTG
TCAGTGGTACCATCTTCAAGGAGACCAAGAAGGAAGTGGAGCTGGCACCAGGGGCCCTCGGACCGTGTGACCATGC
CAGTGGCCTACAAGGAATACCGGCCCCATCTTGTGGACCAGGGGGCCATGCTGCTCAATGTCTCAGGCCACGTCA
AGGAGAGCGGGCAGGTGCTGGCCAAGCAGCACACCTTCCGTCTGCGCACCCACAGCCTCTCCCTCACGTTACTGG
GAGCAGCAGTGGTTGGCCAGGAGTGTGAAGTACAGATTGTCTTCAAGAACCCCTTCCCGTACCCCTACCAATG
TCGTCTTCCGGCTCGAAGGCTCTGGGTTACAGAGGCCCAAGATCCTCAACGTTGGGGACATTGGAGGCAATGAAA
CAGTGACACTGCGCCAGTCTGTTGTGCTGTGCGACCAGGCCCCGCCAGCTCATTGCCAGCTTGGACAGCCAC
AGCTCTCCAGGTGCACGGTGTATCCAGGTGGATGTGGCCCCAGCCCTGGGGATGGGGGCTTCTTCTCAGACG
CTGGAGGTGACAGTCACTTAGGAGAGACCATCCCTATGGCATCTCGAGGTGGAGCTTAGCCCTGTGCCAGGAGCA
ATGGGACTGGAGTCAGATGAGCAAGGACATTGCCCAAGATAGGGGCACACTACAGAGCAGCTCCCCAGGAGCTC
AGGTGGGGAGTCCAGGGCTCCCGGAGAGGGAGTCAGTCTTCACTTGCACTGGGGGAACAGATGCTAATAAACTGT
TTTTTAATG

680/2777
FIGURE 598

MMDGPRSDVGRWGGNPLQPPTTPSPEPEPEPDGRSRRGGGRSFWARCCGCCSCRNAADDDWGPEPSDSRGRGSSS
GTRRPGSRGSDSRPVSRRSGVNAAGDGTIREGMLVVNGVDLLSSRSDQNRREHHTDEY EYDELIVRRGQPFHML
LLLSRTYESSDRITLELLIGNNPEVGKGTHVIIPVGKGGSGGWAQVVKASGQNLNLRVHTSPNAIIIGKFQFTVR
TQSDAGEFQLPFDPRNEIYILFNPWCPEDIVYVDHEDWRQEYVLNESGRIYYGTEAQIGERTWNYGQFDHGVLD
CLYILDRRGMPYGGRGDPVNVSRVISAMVNSLDDNGVLIGNWSGDYSRGTNP SAWVGSVEILLSYLRTGYSVPYG
QCWVFAGVTTTTLRCLGLATRTVTNFNSAHD TD TSLTMDIYFDENMKPLEHLN HDSVWNFHVWNCW MKRPDLPS
GFDGWQVVDATPQETSSGIFCCGPCSVESIKNGLVYMKYDTPFIFAEVNSDKVYWQRQDDGSFKIVYVEEKAIGT
LIVTKAISSNMREDITYLYKHPEGSDAERKAVETAAAHGSKPNVYANRGS AEDVAMQVEAQDAVMGQDLMVSVML
INHSSSRRTVKLHLYLSVTFTYTGVS GTIFKETKKEVELAPGASDRVTMPVAYKEYRPHLVDQGAMLLNVSGHVKE
SGQVLAKQHTFRLRTPDLSTLLGA AVVGQECEVQIVFKNPLPVTLTNVVFRLEGLQRPKILNVGDI GGNETV
TLRQSFVPVRPGPRQLIASLDSPQLSQVHGVIQVDVAPAPGDGGFFSDAGGDSHLGETIPMASRGA

681/2777
FIGURE 599

AGCATCTACAAAGGAGGAATAGTCAAAGCAGCAGCGGCGGGCGGGCGGGCGGGCAGCAGCAGCAGCAGCAGGAGAC
CTTCTCTGATGGATGACCTCTGTGAAGCAAATGGCACTTTTGCCATCAGCTTATTTAAAAATATTGGGGGAAGAGG
ACAACTCAAGAAACGTATTCTTCTCTCCCATGAGCATCTCCTCTGCCCTGGCCATGGTCTTCATGGGGGCAAAGG
GAAGCACTGCAGCCCAGATGTCCCAGGCACTTTGTTTATACAAAGACGGAGATATTCACCGAGGTTTCCAGTCAC
TTCTCAGTGAAGTTAACAGAACTGGCACTCAGTACTTGCTTAGAACTGCCAACAGACTCTTTGGAGAAAAGACGT
GTGATTTCTTCCAGACTTTAAAGAATACTGTCAGAAGTTCTATCAGGCAGAGCTGGAGGAGTTGTCCTTTGCTG
AAGACACTGAAGAGTGCAGGAAGCATATAAATGACTGGGTGGCAGAGAAGACTGAAGGTAAGATTCAGAGGTAC
TGGATGCTGGGACAGTCGATCCCCTGACAAAGCTAGTCCTTGTAATGCCATTTATTTCAAGGGAAAGTGGAATG
AGCAATTTGACAGAAAGTACACAAGGGGAATGCTCTTTAAAACCAACGAGGAAAAAAGACAGTGCAGATGATGT
TTAAGGAAGCTAAGTTTAAAAATGGGGTATGCGGATGAGGTACACACCCAGGTCTTGGAGCTGCCCTATGTGGAAG
AGGAGCTGAGCATGGTCATTCTGCTTCCCGATGACAACACGGACCTCGCCGTGGTGGAAAAAGCACTTACATATG
AGAAATTCAAAGCCTGGACAAATTCAGAAAAGTTGACAAAAAGTAAGGTTCAAGTTTTCTTCCAGATTAAAGC
TGGAGGAGAGTTATGACTTGGAGCCTTTCTTTCGAAGATTAGGAATGATCGATGCTTTTGACGAAGCCAAGGCAG
ACTTTTCTGGAATGTCAACTGAGAAGAATGTGCCTCTGTCCAAGGTTGCCACAAGTGCTTCGTGGAGGTCAATG
AGGAAGGCACAGAGGCTGCCGCAGCCACTGCTGTGGTCAGGAATTCGCGGTGCAGCAGAAATGGAGCCAAGATTCT
GTGCAGACCACCTTTTCTTTTCTTCATCAGGCGCCACAAAACCAACTGCATCTTGTTCTGTGGCAGGTTCTCTT
CTCCGTAAAGAGGAGCAATTGCTGTACATACCCTCCTTTCTTCTACCTATCTTGCCCTTAATTAACATTCCCTGT
GACCTAGTTGGTGCAGTGGCTTGAATGCCAAAATAAAGCGTGTGCACTGG

682/2777
FIGURE 600

MDDLCEANGTFAISLFLKILGEEDNSRNVFFSPMSSSALAMVFMGAKGSTAAQMSQALCLYKGDIIHRGFQSLLS
EVNRTGTQYLLRTANRLFGEKTCDFLPDFKEYCQKFYQAELEELSFAEDTEECRKHINDWVAEKTEGKISEVLDA
GTVDPLTKLVLVNAIYFKGKWNEQFDRKYTRGMLFKTNEEKKTVMFKEAKFKMGYADEVHTQVLELPYVEEEL
SMVILLPDDNTDLAVVEKALTYEKFKAWTNSEKLTISKVQVFLPRLKEESYDLEPFLRRRLGMIDAFDEAKADFS
GMSTEKNVPLSKVAHKCFVEVNEEGTEAAAATAVVRNSRCSRMEPRFCADHPFLFFIRRHKTNCLFCGRFSSP

683/2777
FIGURE 601A

CAGGTCTCGACTTCACTGCTCTGTGTCCTCTGCTCCAGGAGGCCAGCCTGTGTGGCCCTGTGACCTGCAGGTAT
TGGAAGAGCCACAGCTAAGATGCCAGGAACCCCTGGAAGCCTAGAAATGGGACTGTTGACATTTAGGGATGTGGC
CATAGAATTCTCTCCGGAGGAGTGGCAATGTCTGGACACTGCACAGCAGAATTTATATAGGAATGTGATGTTAGA
GAACTACAGAAACCTGGCCTTCCTGGGTATTGCTCTCTCTAAGCCAGACCTGATTACTTATCTGGAGCAAGGAAA
AGAGCCCTGGAATATGAAGCAACATGAGATGGTGGATGAACCCACAGGTATATGTCCTCATTTTCCTCAAGACTT
TTGGCCAGAGCAGAGCATGGAAGATTCTTTTCAAAAAGTATTACTGAGAAAATATGAAAAATGTGGACATGAGAA
TTTACAGTTAAGAAAAGGTTGTAAAAGTGTGGATGAGTGTAAAGGTGCACAAAGAAGGTTATAATAAACTTAACCA
GTGTCTCACAACTGCCAGAGCAAAGTATTTCAATGTGGGAAATATTTGAAAGTCTTCTATAAAATTTTAAATTC
AAACAGACATACGATAAGACATACCGGAAAGAAATGCTTCAAATGTAAAAAATGTGTCAAGTCATTTTGCATCCG
TTTACACAAAACCCAACATAAATGCGTTTATATTACAGAGAAGTCCTGTAAATGTAAAGAATGTGAAAAACCTT
TCATTGGTCCTCAACCCCTTACTAATCATAAGGAAATTCATACTGAAGATAAACCCCTACAAATGTGAAGAATGTGG
CAAAGCTTTTAAGCAGCTCTCAACCCTTACTACACATAAAATAATCTGTGCTAAAGAGAAAATCTACAAGTGTGA
AGAATGTGGCAAAGCATTTCTATGGTCCTCAACCCTAAGAGATAACACTGGAGAGAAAACCCCTA
CAAATGTGAAGAATGTGGCAAAGCTTTTAGCCATTCTTCAACCCTTGCTAAACATAAGAGAATTCATACTGGAGA
GAAACCCCTACAAATGTGAAGAATGTGGCAAAGCTTTTAGCCATTCTTCAACCCTTGCTAAACATAAGAGAATTCA
TACTGGAGAGAAAACCCCTACAAATGTAAAGAATGTGGCAAAGCTTTTAGCAATTCCTCAACCCTTGCTAATCATAA
GATAACTCATACTGAAGAGAAAACCCCTACAAATGTAAAGAATGTGACAAAACCTTTAAGCGACTCTCAACCCTTAC
TAAACATAAAATAATACATGCTGGAGAGAAAACCTCTACAAATGTGAAGAATGTGGCAAAGCTTTTAATCGATCTTC
AAATCTTACTATACATAAGTTTATTCATACTGGAGAGAAAACCTTACAAGTGTGAAGAATGTGGCAAAGCATTTAA
CTGGTCCTCAAGCCTTACTAAACATAAAAAGATTTCTACTAGAGAGAAAACCCCTTCAAATGTAAAGAATGTGGCAA
AGGATTTATATGGTCTTCAACCCTAAGAGATAACACTGGAGAGAAAGCCCTACAAATGTGAAGA
ATGTGGCAAAGCTTTTAGGCAATCCTCAACCCTTACTAAACATAAGATAATTCATACTGGAGAGAAAACCCCTACAA
ATTTGAAGAATGTGGCAAAGCTTTTAGACAATCCTTAACCCTTAATAAACATAAGATAATTCATAGTAGAGAGAA
ACCCTACAAATGTAAAGAATGTGGCAAAGCTTTTAAGCAATTCCTCAACCCTTACTACACATAAAATAATTCATGC
TGGAAAGAACTCTACAAATGTGAAGAATGTGGCAAAGCTTTTAATCATTCTCAAGTCTTTCTACACATAAGAT
AATTCATACTGGAGAGAAAGTCTTACAAGTGTGAAGAATGTGGCAAAGCATTTCTATGGTCCTCAACCCTAAGAAG
ACATAAGAGGATACACACTGGAGAGAAAACCCCTACAAATGTGAAGAATGTGGCAAAGCTTTTAGCCATTCTTCAGC
CCTTGCTAAACATAAGAGAATTCATACTGGAGAGAAAACCCCTACAAATGTAAAGAATGTGGCAAAGCTTTTAGCAA
TTCTCTCAACCCTTGCTAATCATAAGATAACTCATACTGAAGAGAAAACCCCTACAAATGTAAAGAATGTGACAAAAC
TTTTAAGCGACTCTCAACCCTTACTAAACATAAAATAATACATGCTGGAGAGAAAACCTCTACAAATGTGAAGAATG
TGGCAAAGCTTTTAATCGATCTTCAAATCTTACTATACATAAGTTTATTCATACTGGAGAGAAAACCTTACAAGTG
TGAAGAATGTGGCAAAGCATTTAACTGGTCCTCAAGCCTTACTAAACATAAAAGAATTCATACTAGAGAGAAACC
CTTCAAATGTAAAGAATGTGGCAAAGCATTTATATGGTCTTCAACCCTAAGAGATAACACTGGAGAGAGAAACC
AGAGAAGCCCTACAAATGTGAAGAATGTGGCAAAGCTTTTAGCCGTTCTCAACCCTTACTAAGCATAAGACAAT
TCATACTGGAGAGAAAACCCCTACAAATGTAAAGAATGTGGCAAAGCTTTTAAGCACTCTCAGCCCTTGCTAAACA
TAAATAATACATGCTGGAGAGAAAACCTCTACAAATGTGAGGAATGTGGCAAAGCTTTTAATCAATCTTCAAATCT
TACGACACATAAGATAATTCATACTAAAGAGAAAACCTTCCAAGAGTGAAGAATGTGACAAAGCATTTATCTGGTC
CTCAACCCTTACTGAACATAAGAGAATTCATACCAGAGAGAAAACCCCTACAAATGTGAAGAATGTGGCAAAGCAT
TAGCCAGCCTTACACCTTACTACACATAAGAGGATGCACACTGGAGAGAAAACCCCTACAAATGTGAAGAATGTGG
CAAAGCTTTTAGCCAATCTCAACCCTTACTACACATAAGATAATTCATACTGGAGAGAAAACCCCTACAAATGTGA
AGAATGTGGCAAAGCTTTTAGGAAAATCTTCAACTCTTACTGAACATAAGATAATTCATACTGGAGAGAAAACCCCTA
CAAATGTGAAGAATGTGGCAAAGCATTTAGCCAATCCTCAACCCTAAGAGATAACGAGGATGCACACTGGAGAG
GAAACCATACAAATGTGAAGAATGTGGGAAAGCTTTTAATCGATCCTCAAAGCTTACTACACATAAGATAATTCAT
TACTGGAGAGAAAACCTTACAAGTGTGAAGAATGTGGCAAAGCATTTATATCATCTCAACCCTAAATGGACATAA
GAGAATTCATACTAGAGAGAAAACCCCTACAAATGTGAAGAATGTGGCAAAGCATTTAGCCAATCTTCAACCCTAAC
TAGACATAAGAGGTTGCACACCGGAGAGAAAACCCCTACAAATGTGGAGAATGTGGCAAAGCCTTTAAAGAGTCCTC
AGCTCTTACTAAACATAAGATAATTCACACTGGAGAGAAAACCCCTACAAATGTGAAAAATGTTGCAAAGCCTTTAA
CCAGTCTTCAATCCTTACTAACCATAAGAAAATTCATACTATCACACCTGTAATCCCACTACTTTGGGAGGCCGA

684/2777
FIGURE 601B

GGCGGGCGGATCACGAGGTCAGGAGATGGAGACCATCCTGGCTAACACAGTGAAACCCCTTCTCTACTAAAAAAT
ACAAAAAACTAGCCGGGCGTGGTGGCGGGCGCCTGTAGTCCCAGCTATGCGAGAGGCTGAGGCAGGAGAATGGCG
TGAACCCGGGAGGCGGAGCTTGCAGTGAGCCGAGATCACGCCACTGCACTCAAGCCTGGGCGACAGAGCGAGACT
CCGTCTCAAAAAA

685/2777
FIGURE 602

MPGTPGSLEMGLLTFRDVAIEFSPEEWQCCLDTAQONLYRNVMLENYRNLAFLGIALSKPDLITYLEQGKEPWNMK
QHEMVDEPTGICPHFPQDFWPEQSMEDSFQKVLLRKYKCGHENLQLRKGCKSVDECKVHKEGYNKLNQCLTTAQ
SKVFQCGKYLKVFYKFLNSNRHTIRHTGKKCFKCKKCVKSFCIRLHKTQHKCVYITEKSCCKCECEKTFHWSSTL
TNHKEIHTEDKPYKCEECGKAFKQLSTLTTHKII CAKEKIYKCEECGKAFLWSSTLTRHKRIHTGEKPYKCEECG
KAFSHSSTLAKHKRIHTGEKPYKCEECGKAFSHSSALAKHKRIHTGEKPYKCEECGKAFSNSSTLANHKIHTHEE
KPYKCECDKTFKRLSTLTCHKIIHAGEKLYKCEECGKA FNRSNLTIHKFIHTGEKPYKCEECGKA FNWSSSLT
KHKRFHTREKPFKCECGKGF IWSSTLTRHKRIHTGEKPYKCEECGKA FRQSSTLTCHKIIHTGEKPYKFEECGK
AFRQSLTLNKHKIIHSREKPYKCECGKAFKQFSTLTTHKIIHAGKKLYKCEECGKA FNHSSSLSTHKIIHTGEK
SYKCEECGKAFLWSSTLRRHKRIHTGEKPYKCEECGKA FSHSSALAKHKRIHTGEKPYKCEECGKA FSNSSSTLAN
HKIHTHEEKPYKCECDKTFKRLSTLTCHKIIHAGEKLYKCEECGKA FNRSNLTIHKFIHTGEKPYKCEECGKA
FNWSSSLTCHKRIHTREKPFKCECGKA FIWSSTLTRHKRIHTGEKPYKCEECGKA FRSSTLTCHKTIHTGEK
YKCECGKA FKHSALAKHKIIHAGEKLYKCEECGKA FNQSSNLTTCHKIIHTKEKPSKSEECDKA FIWSSTLTEH
KRIHTREKPYKCEECGKA FSQPSHLTTHKRMHTGEKPYKCEECGKA FSQSSTLTTHKIIHTGEKPYKCEECGKA
RKSSTLTEHKIIHTGEKPYKCEECGKA FSQSSTLTRHTRMHTGEKPYKCEECGKA FNRSKLTTHKIIHTGEKPY
KCEECGKA FISSSTLNGHKRIHTREKPYKCEECGKA FSQSSTLTRHKRLHTGEKPYKCGECGKA FKESSALTKHK
IIHTGEKPYKCEKCKAFNQSSILTNHKKIHTITPVIPLLWEAEAGGSRGQEMETILANTVKPLLY

686/2777
FIGURE 603

CGGACATGGCCGCACGCCTTCTCCGAGGGTCCCTACGCGTCCCTGGGCGGCCACCGTGCGCCGCGCCAGCTGCCCCG
CCGCGCGATGTTCTCATTCCGGAGGGGAAGAACGTCTAGAACTCCTTCTGCTAAAAAATTAACAGATATAGGAA
TTCGAAGAATCTTTTCTCCAGAGCATGACATTTCCGGAAAAAGTGTAAAGGAAGTTTTTCCAAGAAGAAGTGATTC
CTCATCACTCAGAATGGGAGAAAGCTGGAGAAGTAAGTAGGGAGGTTTGGGAAAAAGCTGGAAAAACAAGGACTGC
TTGGTGTCAATATTGCAGAGCATCTTGGTGGAATTGGAGGGGATCTGTACTCCGCAGCTATTGTCTGGGAGGAGC
AAGCTTATTCAAATTGTTCAAGGCCAGGTTTTAGTATTCATTCAAGGTATTGTCATGTCCTATATTACAAACCATG
GCTCAGAAGAACAGATTAAGCACTTTATTCCCCAGATGACTGCAGGCAAATGTATTGGTGCAATAGCAATGACAG
AGCCTGGAGCTGGAAGTGACTTACAGGGAATAAAAACAAATGCTAAAAAGGATGGAAGTGACTGGATTCTCAATG
GAAGCAAGGTGTTTCATCAGTAATGGGTCATTAAAGTGATGTTGTGATTGTAGTTGCGGTACAAATCATGAAGCTC
CCTCCCCTGCCCATTGGTATTAGCCTTTTTCTGGTGGAATAATGGAATGAAAGGATTTATCAAGGGACGAAAGCTAC
ATAAAATGGGATTAAGAGCCAGGATACCGCAGAACTATTCTTTGAAGATATAAGGTTGCCAGCTAGTGCCCTAC
TTGGAGAAGAGAATAAAGGCTTCTATTACATCATGAAAGAGCTTCCACAGGAAAGGCTGTTAATTGCTGATGTGG
CAATTTCACTAGTGAATTCATGTTGAAGAAACCAGGAACATGTTAAACAAAGAAAAAGCTTTTGGCAAAACAG
TTGCTCACCTACAGACAGTGCAACATAAATTAGCAGAATTAATAACACATATATGTGTAACCCGAGCATTTGTGG
ACAACGTCTCCAGCTGCATGAAGCGAAACGTTTGGACTCCGCCACTGCTTGCATGGCGAAATATTGGGCATCTG
AGTTACAAAATAGTGTAGCTTACGACTGTGTACAGCTCCATGGAGGTTGGGGATACATGTGGGAGTACCCAATTG
CAAAAGCTTATGTGGATGCCAGAGTTCAGCCAATCTATGGTGGTACAAATGAAATAATGAAGGAGCTGATTGCAA
GAGAGATTGTCTTTGACAAGTAGACATCTGCCCACATCCTGGAGTCCTATTACAGCTAATCTCGTTTTAAATCTG
CTCAAGATAAAATGTAACCTGGAAAGCGAGGAAACACTAAACATGTTTTTACCTGCTCTCTCTATAGAGAAGGAA
ATAAAATATAAATATAAGATTAAACACAGTGGAAGGACAAATCTTTGAAGCCAAAATTCTAGTTTTCCAATATAAG
GTTTAACTTACAGTTTTTTTATGTAGCCAAAGGTAAACGGTTTTCTGAATCTTGCCTAGGTGTTTCATTATCTCT
AAAATTCTAAAAAGCATAAATCATTCAAATCTTCAAACCAAGGCAGAAATAATTTTATGTCGCTATAGTATAAAA
ACATTAATAAGATAGCACATTGACTTTTAAAGGGAAAAGTAAATATAACTTAGCATGTAAACTCATTTCGGCTAC
CATTTGCTCCAAATCCCTAGAACAGTGTTTTTACCCTGTACTCCAACCCCGTTTTTAAGCAATGGAACCTCTT
TCTTCAAACAAAAGCTTATGCAGAACATCTCTGTGAAACGCTGCTGAGTGAGAAGTCTTTTATTGAAGCTGGAA
GCCATCATACCTTACTGCCTTGAAACCCCTAGGACTCAGCTAAGTATTTGCCTAACCCCTGACCAGGGAATGCCTT
GGTTCTGTCAATTGCTGACATCTGAGAACACAGAATAATCCATCATTTTTTAATTTCAAGATATTGGTACATTTTA
TAGGTATCAAAGCAATGGCTTTTCTTTTGAACAGTTAATGTATTTATTAACCTAATAATTACTTTATGTCTTCT
ATAAACAGGCTGTTAATACAATGATGACAAACAAAAGTGGCAAGATCACTAAAAAATAAGTGAATAAACAAATA
AGTAGTAAATAAGGTAAGAAGTAAATATGTAAAAGAGATAA

687/2777
FIGURE 604

MAARLLRGSLRVLGGHRAPRQLPAARCSHSGGEERLETPSAKKLT DIGIRRIF SPEHDIFRKSVRKFFQEEVIPH
HSEWEKAGEVSREVWEKAGKQGLLGVNIAEHLGGIGGDLYSAAIVWEEQAYSNC SGPGFSIHSGIVMSYITNHGS
EEQIKHFIPQMTAGKCIGAIAMTEPGAGSDLQGIKTNAKKDGSDWILNGSKVFI SNGSLSDVVIVVAVTNHEAPS
PAHGISLFLVENGMGFIKGRKLHKMGLKAQDTAEFFEDIRLPASALLGEENKGFYYIMKELPQERLLIADVAI
SASEFMFEETRNYVKQRKAFGKTV AHLQTVQHKLAELKTHICVTRAFVDNCLQLHEAKRLDSATACMAKYWASEL
QNSVAYDCVQLHGGWGYMWEYPIAKAYVDARVQPIYGGTNEIMKELIAREIVFDK

688/2777
FIGURE 605

ATCCTACGGGCCACGCCTGGGCCCTTGCTGCCAGGAAGCTTCGGCCCCGCAGCTCGGCTTGCTGCGGTCTCAGGTT
TCTTTACCTCCGGAAGAAGAATATTGGCCCCCTTGAATCTGGAAGTTCATTGAAGAGTCTGAAATTAGGGACTT
ATTTCAAATTTGGACATGGCTAGTCGAGGCGCAACAAGACCCAACGGGCCAAATACTGGAAATAAAATATGCCAG
TTCAAAC TAGTACTTCTGGGAGAGTCCGCTGTGGCAAATCAAGCCTAGTGCTTCGTTTTGTGAAAGGCCAATTT
CATGAATTTCAAGAGAGTACCATTGGGGCTGCTTTTCTAACCCAACTGTATGTCTTGATGACACTACAGTAAAG
TTTGAAATATGGGATACAGCTGGTCAAGAACGATACCATAGCCTAGCACCAATGTACTACAGAGGAGCACAAGCA
GCCATAGTTGTATATGATATCACAAATGAGGAGTCCTTTGCAAGAGCAAAAAATTGGGTAAAGAACTTCAGAGG
CAAGCAAGTCCTAACATTGTAATAGCTTTATCGGGAAACAAGGCCGACCTAGCAAATAAAAGAGCAGTAGATTTT
CAGGAAGCACAGTCCTATGCAGATGACAATAGTTTATTATTTCATGGAGACATCCGCTAAAACATCAATGAATGTA
AATGAAATATTCATGGCAATAGCTAAAAAATTGCCAAAGAATGAACCACAAAATCCAGGAGCAAATTTCTGCCAGA
GGAAGAGGAGTAGACCTTACCGAACCACACAACCAACCAGGAATCAGTGTTGTAGTAACTAACCTCTAGTTTG
AACTAGCTGGAATAGTCTTCTGCTTCCTAAATGTTAATAACAATGGAATTGGAGCATTTAACCAGCCCAGTATGA
CTTCCAAAAGAAGAGACTTATGATAGAGTCAAGTTTCTAATACAGAATTATTTTAAAGTGTTTTGAACCTAATTTT
TAATAACATGCATGGGTCCCTCTCACTAATGTTTCAACAATAGGGAAAAATGAGAACTATGTGGACACTTGTTTTT
ATTGGAAGGTTAGGGGGAATAATTTCTCATCACTAGGAATATAGACAAATGACTGTCTGGGCCCACACAGTTAAC
CAGCCCATTTCTCCACACTGGTACAGTAGTCACCTGTGAAAAAAAAAATTGGAACCTACTAATTTGGGCTTTTCA
AAAACATTTCTTTGTTTAGAAGGAGATTCTAAAGTTATTTATGATGCTTAGCCATAGTATTCAGGCAAATGTTTCAT
TTCTCCTGGTACCTGTATTTAAATGTACATTCCACATTTTAAATAAATTAACCACAAGAAAATAATCCACATAT
ACAAGGTCAGGGGTGGGGAAGAGTATTAATGGTATCTTAATTATACCCAGTCTGGTTTTTTTTTTTAAATGGGGT
AAAAATCAAATGCAACCCCATCTTGTTTTAGGAATTTTGAGAACTAATAAATGCACCTTAATGGTCAGTGTTCCCT
TTCAAACATGTGAGTTCTTTAACAAAAATGAAATAAACCAGGTGTCTGTGATTTCTAATTAATCACCGCTGGCCA
TTACACAGGTTTTGTTGTTGGGGTGGGAGGGGGCTTTTGTTCCCTTTTGACATAATATAGTCAATGCACTAAC
AATTATGTATATTCAAACCTTGATTATTTTAAATTCGATCTTCAGCTGTACTGTAAATAGGGTACTGCATTGTAGT
CTCCATATCTGTATTACTTTTCTGTAATATTTAAGAGTTGCTTAAAAGCATACAAAATGTACTGTACTAAAACA
GCTAATTATTTCTCTCTCCCCCTTTGACAGGAAGGGGCTTCAGTTGTTCTCCATGGCTAGAACCATAATAAACA
ATGTACCCGTAATTTGTAACATAAAGTATTGCAATATGTTAGTAACAATCTTGCAGCCTTCCTTTCCAAAGTTCA
TTTTATTTTGATCAGTTCAGTATATTGCACTAATTATTTTAGGTATTTTCATTATATGAAAGCTACCATGTGTCA
GAGATGATTTAATCTATTTAAGTGTTGGACTGCTAGGAGAACTTGTACATTTATGATAATGCAGAATTAGGAAAA
CGGTTACCAGTGTTTAGTTTTATATTGAGGTGCTCAGGTTGGAATAAAGTGGTATAAAAAGCAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA

689/2777
FIGURE 606

MASRGÄTRPNGPNTGNKICQFKLVLLGESAVGKSSLVLRVKGQFHEFQESTIGAAFLTQTVCLDDTTVKFEIWD
TAGQERYHSLAPMYRGAQAAIVVYDITNEESFARAKNWVKELQRQASPNIVIALSGNKADLANKRAVDFQEAQS
YADDNSLLFMETSAKTS MNVNEIFMAIAKKLPKNEPQNP GANSARGRGVDLTEPTQPTRNQCCSN

690/2777
FIGURE 607

GTTCCCAGAAGCTCCCCAGGCTCTAGTGCAGGAGGAGAAGGAGGAGGAGCAGGAGGTGGAGATTCCCAGTTAAAA
GGCTCCAGAATCGTGTACCAGGCAGAGAACTGAAGTACTGGGGCCTCCTCCACTGGGTCCGAATCAGTAGGTGAC
CCCGCCCCTGGATTCTGGAAGACCTCACCATGGGACGCCCCCGACCTCGTGCGGCCAAGACGTGGATGTTCTCTGC
TCTTGCTGGGGGGAGCCTGGGCAGGACACTCCAGGGCACAGGAGGACAAGGTGCTGGGGGGTTCATGAGTGCCAAC
CCCATTTCGCAGCCTTGGCAGGCGGCCTTGTTCCAGGGCCAGCAACTACTCTGTGGCGGTGTCCTTGTTAGGTGGCA
ACTGGGTCTTTACAGCTGCCCCACTGTAAAAAACCGAAATACACAGTACGCCTGGGAGACCACAGCCTACAGAATA
AAGATGGCCCAGAGCAAGAAATACCTGTGGTTTCAGTCCATCCCACACCCCTGCTACAACAGCAGCGATGTGGAGG
ACCACAACCATGATCTGATGCTTCTTCAACTGCGTGACCAGGCATCCCTGGGGTCCAAAGTGAAGCCCATCAGCC
TGGCAGATCATTGCACCCAGCCTGGCCAGAAAGTGCACCGTCTCAGGCTGGGGCACTGTCAACAGTCCCCGAGAGA
ATTTTCCTGACACTCTCAACTGTGCAGAAAGTAAAAATCTTTCCCCAGAAGAAGTGTGAGGATGCTTACCCGGGGC
AGATCACAGATGGCATGGTCTGTGCAGGCAGCAGCAAAGGGGGCTGACACGTGCCAGGGCGATTCTGGAGGCCCCC
TGGTGTGTGATGGTGCACCTCCAGGGCATCACATCCTGGGGCTCAGACCCCTGTGGGAGGTCCGACAAACCTGGCG
TCTATACCAACATCTGCCGCTACCTGGACTGGATCAAGAAGATCATAGGCAGCAAGGGCTTGATTCTAGGATAAGC
ACTAGATCTCCCTTAATAAACTCACAACCTCTCTGGTTC

691/2777
FIGURE 608

MGRPRPRAAKTWMFLLLLGGAWAGHSRAQEDKVLGGHECQPHSQPWQAALFQGQQLLCGGVLVGGNWWLTAAHCK
KPKYTVRLGDHSLQNKDGPEQEIPVVQSIPHPCYNSSDVEDHNHDLMLLQLRDQASLGSKVKPISLADHCTQPGQ
KCTVSGWGTVTSPRENFDTLNCAEVKIFPQKKCEDAYPGQITDGMVCAGSSKGADTCQDSSGGPLVCDGALQGI
TSWGS DPCGRSDKPGVYTNICRYLDWIKKIIGSKG

692/2777
FIGURE 609

ATGGAAGGAGACTTCTCGGTGTGCAGGAACTGTAAAAGACATGTAGTCTCTGCCAACTTCACCCCTCCATGAGGCT
TACTGCCTGCGGTTCTTGGTCCTGTGTCCGGAGTGTGAGGAGCCTGTCCCAAGGAAACCATGGAGGAGCACTGC
AAGCTTGAGCACCAGCAGGTTGGGTGTACGATGTGTCTCAGCAGAGCATGCAGAAGTCCTCGCTGGAGTTTCATAAG
GCCAATGAGTGCCAGGAGCGCCCTGTTGAGTGTAAGTTCTGCAAACCTGGACATGCAGCTCAGCAAGCTGGAGCTC
CACGAGTCCTACTGTGGCAGCCGGACAGAGCTCTGCCAAGGCTGTGGCCAGTTCATCATGCACCGCATGCTCGCC
CAGCACAGAGATGTCTGTCTGGAGTGAACAGGCCAGCTCGGGAAAGGGGAAAGAATTTAGCTCCTGAAAGGGAA
ATCTACTGTCAATTATTGCAACCAAATGATTCCAGAAAATAAGTATTTCCACCATATGGGTAAATGTTGTCCAGAC
TCAGAGTTTAAAGAAACACTTTCCTGTTGGAAATCCAGAAATTCCTTCCTTCATCTCTTCCAAGTCAAGCTGCTGAA
AATCAAACCTCCACGATGGAGAAAGATGTTTCGTCCAAAGACAAGAAGTATAAACAGATTTCTCTTCATTCTGAA
AGTTCATCAAAGAAAGCACCAAGAAGCAAAAACAAAACCTTGATCCACTTTTGATGTCAGAGCCCCAAGCCCAGG
ACCAGCTCCCCTAGAGGAGATAAAGCAGCCTATGACATTCTGAGGAGATGTTCTCAGTGTGGCATCCTGCTTCCC
CTGCCGATCCTAAATCAACATCAGGAGAAATGCCGGTGGTTAGCTTCATCAAAAAGGAAAAACAAGTGAGAAATTT
CAGCTAGATTTGGAAAAGGAAAGGTACTACAAATTCAAAGATTTCACTTTTTAACACTGGCATTCTGCTTACTT
GCTGTGGTGGTCTTGTGAAAGGTGATGGGTTTTATTTCGTTGGGCTTTAAAAGAAAAGGTTTGGCAGAACTAAAA
CAAACCTCACGTATCATCTCAATAGATACAGAAAAGGCTTTTGATAAAATTCAACTTGACTTCATGTTAAAAACC
CTCAACAAACCAGGCGTCGAAGGAACATACCTCAAATAATAAGAGCCATCTATGACAAAACACAGCCAACATC
ATACTGAATGAGCAAAAGCTGGAGCATTACTCTTGAGAAGTAGAACAAGGCACTTCAGTCCTATTCAACATAGTA
CTGGAAGTCTCGCCACAGCAATCAGGCAAGAGAAAGAAGTAAAGGCACCC

693/2777
FIGURE 610

MEGDFSVCNRNCKRHVVSANFTLHEAYCLRFLVLCPECEEPVPKETMEEHCKLEHQVVGCTMCQQSMQKSSLEFHK
ANECQERPVECKFCKLDMQLSKLELHESYCGSRTELCQGCQGFIMHRMLAQHRDVCRSEQAQLGKGERISAPERE
IYCHYCNQMIPENKYFHHMGKCCPDSEFKKHFPVGNPEILPSSLPSQAAENQTSTMEKDVRPKTRSINRFPLHSE
SSSKAPRSKNKTLDPLLMEPKPRTSSPRGDKAAYDILRRCSQCGILLPLPILNQHQEKCRWLASSKRKTSEKF
QLDLEKERYYYKFRFHF

694/2777
FIGURE 611

GAGAAATTGGAGAAGATAAACTGGACACTGGGGAGACCACAACTTCATCCTGCGTGGGATCTCCCAGCTACCTG
CAGTGGCCACCATGTCTTGGGTCCTGCTGCCTGTACTTTGGCTCATTGTTCAAACCTCAAGCAATAGCCATAAAGC
AAACACCTGAATTAACGCTCCATGAAATAGTTTGTCTAAAAAACTTCACATTTTACACAAAAGAGAGATCAAGA
ACAACCAGACAGAAAAGCATGGCAAAGAGGAAAGGTATGAACCTGAAGTTCAATATCAGATGATCTTAAATGGAG
AAGAAATCATTTCTCTCCCTACAAAAACCAAGCACCTCCTGGGGCCAGACTACACTGAAACATTGTACTCACCCA
GAGGAGAGGAAATTACCACGAAACCTGAGAACATGGAACACTGTTACTATAAAAGGAAACATCCTAAATGAAAAGA
ATTCTGTTGCCAGCATCAGTACTTGTGACGGGTTGAGAGGATACTTCACACATCATCACCAAAGATACCAGATAA
AACCTCTGAAAAGCACAGACGAGAAAGAACATGCCGTCTTTACATCTAACCAGGAGGAAACAAGACCCAGCTAACCC
ACACATGTGGTGTGAAGAGCACTGACGGGAAACAAGGCCCAATTCGAATCTCTAGATCACTCAAAGCCCAGAGA
AAGAAGACTTTCTTCGGGCACAGAAATACATTGATCTCTATTTGGTGCTGGATAATGCCTTTTATAAGAACTATA
ATGAGAATCTAACTCTGATAAGAAGCTTTGTGTTTGATGTGATGAACCTACTCAATGTGATATATAACACCATAG
ATGTTCAAGTGGCCTTGGTAGGTATGGAAATCTGGTCTGATGGGGATAAGATAAAGGTGGTGGCCAGCGCAAGCA
CCACGTTTGACAACTTCCTGAGATGGCACAGTTCTAACCTGGGGAAAAAGATCCACGACCATGCTCAGCTTCTCA
GCGGGATTAGCTTCAACAATCGACGTGTGGGACTGGCAGCTTCAAATTCCTTGTGTTCCCCATCTTCGGTTGCTG
TTATTGAGGCTAAAAAAAAGAATAATGTGGCTCTTGTAGGAGTGATGTCACATGAGCTGGGCCATGTCCTTGGTA
TGCCTGATGTTCCATTCAACACCAAGTGTCCCTCTGGCAGTTGTGTGATGAATCAGTATCTGAGTTCAAATTC
CAAAGGATTTAGTACATCTTGCCGTGCACATTTTGAAAGATACCTTTTATCTCAGAAACCAAAGTGCCTGCTGC
AAGCACCTATTCTACAAATATAATGACAACACCAAGTGTGTGGGAACCACTTCTAGAAGTGGGAGAAGACTGTG
ATTGTGGCTCTCCTAAGGAGTGACCAATCTCTGCTGTGAAGCCCTAACGTGTAACTGAAGCCTGGAAGTATT
GCGGAGGAGATGCTCCAAACCATAACCACAGAGTGAATCCAAAAGTCTGCTTCACTGAGATGCTACCTTGCCAGGA
CAAGAACCAAGAACTCTAACTGTCCCAGGAATCTTGTGAATTTTACCCATAATGGTCTTTCACCTGTCAATTCTA
CTTTCTATATTGTTATCAGTCCAGGAAACAGGTAAACAGATGTAATTAGAGACATTGGCTCTTTGTTTAGGCCTA
ATCTTTCTTTTACTTTTTTTTTTTCTTTTTTTCTTTTTTTTAAAGATCATGAATTTGTGACTTAGTTCTGCCCTT
TGGAGAACAAAAGAAAGCAGTCTTCCATCAAATCACCTTAAAATGCACGGCTAAACTATTAGAGTTAACTCC
AGAATTGTTAAATTACAAGTACTATGCTTTAATGCTTCTTTCATCTTACTAGTATGGCCTATAAAAAAATAATA
CCACTTGATGGGTGAAGGCTTTGGCAATAGAAAGAAGAATAGAATTCAGGTTTTATGTTATTCCTCTGTGTTAC
TTCGCTTGCTCTGAAAGTGCAGTATTTTTCTACATCATGTGAGAAATGATTCAATGTAAATATTTTTCATTTT
ATCATGTATATCCTATACACACATCTCCTTCATCATCATATATGAAGTTTATTTTGAGAACTTACATTGCTTAC
ATTTTAATTGAGCCAGCAAAGAAGGCTTAATGATTTATTGAACCATAATGTCAATAAAAAACAACTTTTGAGGC

695/2777
FIGURE 612

MLRGISQLPAVATMSWVLLPVLWLIVQTQAIAIAIKQTPELTLEIVCPKKLHILHKREIKNNQTEKHGKEERYEPE
VQYQMILNGEEIILSLQTKHLLGPDYTETLYSPRGEEITTKPENMEHCYYKGNILNEKNSVASISTCDGLRGYF
THHHQRYQIKPLKSTDEKEHAVFTSNQEEQDPANHTCGVKSTDGKQGPIRISRSLKSPEKEDFLRAQKYIDLVLV
LDNAFYKNYNENLTLIRSFVFDVMNLLNVIYNTIDVQVALVGMEIWSGDGDIKVVPSASTTFDNFLRWHSSNLGK
KIHDAQLLSGISFNRRVGLAASNLCSPSSVAVIEAKKKNNVALVGVMSELGHVVGMPDVPFNTKCPSGSCV
MNQYLSSKFPKDFSTSCRAHFERYLLSQPKCLLQAPIPTNIMTTPVCGNHLLEVGEDCDCGSPKECTNLCCEAL
TCKLKPGTDCGGDAPNHTTE

696/2777
FIGURE 613

GGCACCAGGTCTCCCAAGGCTTCCTCAGCGTCGACGCCGGGGAGCGCCCTGGGGTTGGGAGCGCCCGGGGCCCCGCG
AAGGAGGAGGTGGCTCAGGTGTGAGGGCGCACCGTGGGAACCGGCCCGGGGAGGCGTGGAACGCGGGGCCTG
GGACTCGACCAGCCTCTCCCGTGC GGATCGCAAAATCTCGGAGCTGAAACAGCCCGTTGTTTCGACGCTCCCTCT
GACCCGCCACCCTGCACATTGTTTTCCATTGCCCCGGGTGCGGGGTGGGAGGAGAGGCACGCCGGGGTTCTGGAG
CTTGGCCGCGCGCCAGGCTTGTGGCCTTCGTCCCCCTGGGGCCACTGGGGCGGCCACGCCTCTCCGGCGGGAGGA
GAGAACGCGTGGGTCCGGGTGGCTGCTCCGGCCCTTCGCTCCAGCTCGGCCATGGGGTTCGCGCAGCTCCCACG
CCGCGGTCAATCCCGACGGGGACAGTATTCGGCGAGAGACCGGCTTCTCCCAAGCCAGCCTGCTCCGCCTGCACC
ACCGGTTCCGGGCACTGGACAGGAATAAGAAGGGCTACCTGAGCCGCATGGATCTCCAGCAGATAGGGGCGCTCG
CCGTGAACCCCTGGGAGACCGAATTATAGAAAGCTTCTTCCCCGATGGGAGCCAGCGAGTGGATTTCACAGGCT
TTGTGAGGGTCTTGGCTCATTTTCGCCCTGTAGAAGATGAGGACACAGAAACCAAGACCCCAAGAAACCTGAAC
CTCTCAACAGCAGAAGGAACAAACTTCACTATGCATTTAGCTCTATGACCTGGATCGCGATGGGAAGATCTCCA
GGCATGAGATGCTGCAGGTTCTCCGTCTGATGGTTGGGGTACAGGTGACAGAAGAGCAGCTGGAGAACATCGCTG
ACCGCACGGTGCAGGAGGCTGATGAAGATGGGGATGGGGCTGTGTCTTTCGTGGAGTTCACCAAGTCCCTTAGAGA
AGATGGACGTTGAGCAAAAAATGAGCATCCGGATCCTGAAGTGAAGTCCGTTTGTGCCTTGGGCTTGCTCCTGCAA
CCAGTATCTCCTTGGAAATTCATCCAAAGCCCCCATGGACGCATGGACGCAGGGCGACAATAAACTGTATTTTCGT
TTCTAACTCTATTTAGGGCCAAGAGAAGAAAGCTGGAAGGATGTGTACTAAAGTCTAGCTCAGCAGTCCCCAAC
TTTTTGGCATCAGGGACAGTTTTTCCACGGATGGGTGACAGGGGATGGTTTTTGGGATGATTCAAGTGCATTACAT
TTATTGTGCACTTTATTTCTATTATGATTACATTGTAATATATAATGAAATAATTATACAACCTACCATAATGTA
GAATCAGCAGGAGCCCTGAGCTTGTTTTCTTGCAATTAGACGGTCCCATATGGGAGTGATGGGAGACAGTGACAG
ATCATCAGGCATTAGATTCTCATAAGGAGTGCACAATCTAGATCCTTTGGTGTGCAGTTCACAGTAGGATTTGGG
CTCCTATGATAATCTAATGCCACTGCTGATCTGACAGGAGGCAGAGCTCAGGCGGTAATGCAAGCAATGGGGAGT
GGCTGTAAATATAGATGAAGCTTCAGCTCGCCTGCCGCTCACCTTGTGCTGTGCAGCCCGGTTCTAACAGACCA
CAGACCCACACCAGGTCTATCTCATTTGGTCTCAGAGCTGTGAATCAGCCAGCAATATTTTAGTTGCAAATCAC
TGAAAACCCAACTCAAAGTGACTTAAGTCAGAAAGAAATTTTATGAATTCAGGTAATTAAGGATCCAGAAAGTAT
CTGGCTTTAGGCACAGCTGGATCCAAGGGCACAAATGATGTCATCAGGCTCCAGTTATTCTCCATCTCCAGCTC
AGCTTTTTCTGTCTGTAAGCCTGATTTTCAGGAAGGCTCTTTCTAGTGATGGAGATGACCACCATCAGCTCCAG
GCTTCTATCCTGCTAACCAGTAACCAGTGGGAAGAGATTTACTTATTCCAATAATTCCAAGTGGAGAGTGTCA
TTGACCCGTTTGGGGTCTCATCTCTACTTCTAGGGGAATGAAACACTTTGAGTGGCCAGGCCTGTGTCATGTGCT
AATTCTAGAGCCAGGGAAATAAGGTCTGAGGATTCAGGATGGGGTGAAGGTGGTTGCTTAAAGGAAATGAAA
TACAATTAGCAGAATAAGGGGAAACGAGTGGTCTGCTCTGCTCGGGCAAAACAAGAGATGCCCATTAAGTGTGAGG
GACCTTGAAGTCTGGACTCTTAAATGGGTTTTTGTGATTTCCTGGGTGCATGCTAGGATGATGGGGCTTGATG
CAGTAGGGAAGAGACGATGTAAAAATAATAACAATATATACCTTCAAAAAAAAAAAAAAAAAAAAAAAAAA

697/2777
FIGURE 614

MGSRSSHAÄVIPDGDSIRRETGFSQASILLRLHHRFRALDRNKKGYLSRMDLQQIGALAVNPLGDRIIESFFPDGS
QRVDFPGFVRVLAHFRPVEDEDTETQDPKKPEPLNSRRNKLHYAFQLYDLDRDGKISRHEMLQVLRLMVG VQVTE
EQLENIADRTVQEADEDGDGAVSFVEFTKSLEKMDVEQKMSIRILK

698/2777
FIGURE 615A

ACCTAAAACCTTGCAAGTTCAGGAAGAAACCATCTGCATCCATATTGAAAACCTGACACAATGTATGCAGCAGGC
TCAGTGTGAGTGAAGTGGAGGCTTCTCTACAACATGACCCAAAGGAGCATTGCAGGTCTATTTGCAACCTGAAG
TTTGTGACTCTCCTGGTTGCCTTAAGTTCAGAACTCCCATTCTGGGAGCTGGAGTACAGCTTCAAGACAATGGG
TATAATGGATTGCTCATTGCAATTAATCCTCAGGTACCTGAGAATCAGAACCTCATCTCAAACATTAAGGAAATG
ATAACTGAAGCTTCATTTTACCTATTTAATGCTACCAAGAGAAGAGTATTTTTTCAGAAAATATAAAGATTTTAATA
CCTGCCACATGGAAAGCTAATAATAACAGCAAAATAAAACAAGAATCATATGAAAAGGCCAAATGTCATAGTGACT
GACTGGTATGGGGCACATGGAGATGATCCATACACCCTACAATACAGAGGGTGTGGAAAAGAGGGAAAATACATT
CATTTACACCTAATTTCTACTGAATGATAACTTAACAGCTGGCTACGGATCACGAGGCCGAGTGTTTTGTCCAT
GAATGGGCCCACCTCCGTTGGGGTGTGTTTCGATGAGTATAACAATGACAAACCTTTCTACATAAATGGGCAAAAT
CAAATTAAAGTGACAAGGTGTTTCATCTGACATCACAGGCATTTTTTGTGTGTGAAAAGGTCTTGCCCCAAGAA
AACTGTATTATTAGTAAGCTTTTTTAAAGAAGGATGCACCTTTATCTACAATAGCACCCAAAATGCAACTGCATCA
ATAATGTTTCATGCAAGTTTATCTTCTGTGGTTGAATTTTGTAAATGCAAGTACCCACAACCAAGAAGCACCAAAC
CTACAGAACCAGATGTGCAGCCTCAGAAGTGATGGGATGTAATCACAGACTCTGCTGACTTTCACCACAGCTTT
CCCATGAATGGGACTGAGCTTCCACCTCCTCCACATTCTCGCTTGACAGGCTGGTGACAAAGTGGTCTGTTTA
GTGCTGGATGTGTCCAGCAAGATGGCAGAGGCTGACAGACTCCTTCAACTACAACAAGCCGAGAAATTTTATTG
ATGCAGATTGTTGAAATTCATACCTTCGTGGGCATTGCCAGTTTCGACAGCAAAGGAGAGATCAGAGCCCAGCTA
CACCAAATTAACAGCAATGATGATCGAAAGTTGCTGGTTTCATATCTGCCACCACTGTATCAGCTAAAACAGAC
ATCAGCATTTGTTTCAGGGCTTAAGAAAGGATTTGAGGTGGTTGAAAACCTGAATGGAAAAGCTTATGGCTCTGTG
ATGATATTAGTGACCAGCGGAGATGATAAGCTTCTTGGAATTGCTTACCCACTGTGCTCAGCAGTGGTTCAACA
ATTCACCTCCATTGCCCTGGGTTTCATCTGCAGCCCCAAATCTGGAGGAATTATCAGCTTACAGGAGGTTTAAAG
TTCTTTGTTCCAGATATATCAAACCTCCAATAGCATGATTGATGCTTTCAGTAGAATTTCTCTGGAAGTGGAGAC
ATTTTCCAGCAACATATTAGCTTGAAAGTACAGGTGAAAATGTCAAACCTCACCATCAATTGAAAACACAGTG
ACTGTGGATAATACTGTGGGCAACGACACTATGTTTCTAGTTACGTGGCAGGCCAGTGGTCTCTCTGAGATTATA
TTATTTGATCCTGATGGACGAAAATACTACACAAATAATTTTATCACCAATCTAACTTTTCGGACAGCTAGTCTT
TGGATTCCAGGAACAGCTAAGCCTGGGCACTGGACTTACACCCTGAACAATACCCATCATTTCTCTGCAAGCCCTG
AAAGTGACAGTGACCTCTCGCGCTCCAACCTCAGCTGTGCCCCAGCCACTGTGGAAGCCTTTGTGGAAGAGAC
AGCCTCCATTTTCTCATCTGTGATGATTTATGCCAATGTGAAACAGGGATTTTATCCCATTCTTAATGCCACT
GTCAGTCCACAGTTGAGCCAGAGACTGGAGATCCTGTTACGCTGAGACTCCTTGATGATGGAGCAGGTGCTGAT
GTTATAAAAAATGATGGAATTTACTCGAGGTATTTTTTCTCTTTGCTGCAAATGGTAGATATAGCTTGAAAGTG
CATGTCAATCACTCTCCAGCATAAGCACCCAGCCACTCTATTCCAGGGAGTCATGCTATGTATGTACCAGGT
TACACAGCAAACGGTAATATTAGATGAATGCTCCAAGGAAATCAGTAGGCAGAAATGAGGAGGAGCGAAAGTGG
GGCTTTAGCCGAGTCAGCTCAGGAGGCTCCTTTTCAGTGCTGGGAGTTCCAGCTGGCCCCCACCCTGATGTGTTT
CCACCATGCAAAATTATTGACCTGGAAGCTGTAAAGTAGAAGAGGAATTGACCCTATCTTGGACAGCACCTGGA
GAAGACTTTGATCAGGGCCAGGCTACAAGCTATGAAATAAGAATGAGTAAAAGTCTACAGAATATCCAAGATGAC
TTTAACAATGCTATTTTAGTAAATACATCAAAGCGAAATCCTCAGCAAGCTGGCATCAGGGAGATATTTACGTTT
TCACCCAGATTTCCACGAATGGACCTGAACATCAGCCAAATGGAGAAACACATGAAAGCCACAGAATTTATGTT
GCAATACGAGCAATGGATAGGAACTCCTTACAGTCTGCTGTATCTAACATTGCCAGGCGCCTCTGTTTATTCCC
CCCAATTCTGATCCTGTACCTGCCAGAGATTATCTTATATTGAAAGGAGTTTTTAACAGCAATGGGTTTGATAGGA
ATCATTGCTTATTATAGTTGTGACACATCATACTTTAAGCAGGAAAAAGAGAGCAGACAAGAAAGAGAATGGA
ACAAAATTATTATAATAATAATATCCAAAGTGTCTTCTTCTTAGATATAAGACCCATGGCCTTCGACTACAAAA
CATACTAACAAAGTCAAATTAACATCAAACTGTATTAAATGCATTGAGTTTTTGTACAATACAGATAAGATTT
TTACATGGTAGATCAACAATTCTTTTTGGGGGTAGATTAGAAAACCCTTACACTTTGGCTATGAACAAATAATAA
AAATTATTCTTTAAAGTAATGTCTTTAAAGGCAAAGGGAAGGGTAAAGTCGGACCAGTGTCAGGAAAGTTTGT
TTATTGAGGTGAAAAATAGCCCCAAGCAGAGAAAAGGAGGTAGGTCTGCATTATAACTGTCTGTGTGAAGCAA
TCATTTAGTTACTTTGATTAATTTTTCTTTCTCCTTATCTGTGCAGAACAGGTTGCTTGTGTACAACTGAAGAT
CATGCTATATTTTATATATGAAGCCCTAATGCAAAGCTCTTTACCTCTTGCTATTTTGTATATATATTACAGA
TGAAATCTCACTGCTAATGCTCAGAGATCTTTTTTCACTGTAAGAGGTAACCTTTAACAATATGGGTATTACCTT
TGTCTCTTCATACCGGTTTTATGACAAAGGTCTATTGAATTTATTGTTTGTAAAGTTTCTACTCCCATCAAAGCA

699/2777
FIGURE 615B

GCCTTCTAAGTTAATTGCCTTGGTTATTATGGATGATAGTTATAGCCCTTATAATGCCTTACCTAGGAAA

700/2777
FIGURE 616

MTQRSIAGPICNLKFVTLTLLVALSSELPFLGAGVQLQDNGYNGLLIAINPQVPENQNLISNIKEMITEASFYLFNA
TKRRVFFRNILIPATWKANNNSKIKQESYEKANVIVTDWYGAHGDDPYTLQYRGCCKEGKYIHFTPNFLLNDN
LTAGYGSRGVRFVHEWAHLRWGVFDEYNNDKPFYINGQNIKVTRCSSDITGIFVCEKGPCPQENCIISKLFKEG
CTFIYNSTQNATASIMFMQSLSSVVEFCNASTHNQEAPNLQNMCSLRSAWDVITDSADFHHSFPMNGTELPPPP
TFSLVQAGDKVVCLVLDVSSKMAEADRLQLQQAEEFYLMQIVEIHTFVGIASFDSKGEIRAQLHQINSNDDRKL
LVSYLPTTVSAKTDISICSGLKKGFVVEKLNKAYGSVMILVTSGDDKLLGNCLPTVLSSGSTIHSIALGSSAA
PNLEELSRLTGGLKFFVPDISNSNSMIDAFSRISSTGDIQQHIQLESTGENVKPHHQLKNTVTVDNTVGNNDTM
FLVTWQASGPPEIILFDPDGRKYYTNNFITNLTFRTASLWIPGTAKPGHWYTLNNTTHSLQALKVTVTSRASNS
AVPPATVEAFVERDSLHFPFVMIYANVKQGFYPILNATVTATVEPETGDPVTLRLLDDGAGADVIKNDGIYSRY
FFSFAANGRYSLKVHVNHSPSISTPAHSIPGSHAMYVPGYTANGNIQMNAPRKSVGRNEEERKWGFSRVSSGGSF
SVLGVPAGPHPDVFPPCKIIDLEAVKVEEELTSLWTAPGEDFDQGGQATSYEIRMSKSLQNIQDDFNAILVNTSK
RNPQQAGIREIFTFSPQISTNGPEHQPNGETHESHRIYVAIRAMDRNSLQSAVSANIAQAPLFIPPNSDPVPARDY
LILKGVLTAMGLIGIICLIIVVTHHTLSRKKRADKKENGTKLL

701/2777
FIGURE 617

TGTCACTGAGGGTTGACTGACTGGAGAGCTCAAGTGCAGCAAAGAGAAGTGTGAGAGCATGAGCGCCAAGTCCAG
AACCATAGGGATTATTGGAGCTCCTTTCTCAAAGGGACAGCCACGAGGAGGGGTGGAAGAAGGCCCTACAGTATT
GAGAAAGGCTGGTCTGCTTGAGAACTTAAAGAACAAGAGTGTGATGTGAAGGATTATGGGGACCTGCCCTTTGC
TGACATCCCTAATGACAGTCCCTTTCAAATTGTGAAGAATCCAAGGTCTGTGGGAAAAGCAAGCGAGCAGCTGGC
TGGCAAGGTGGCAGAAGTCAAGAAGAACGGAAGAATCAGCCTGGTGTGGGCGGAGACCACAGTTTGGCAATTGG
AAGCATCTCTGGCCATGCCAGGGTCCACCCTGATCTTGGAGTCATCTGGGTGGATGCTCACACTGATATCAACAC
TCCACTGACAACCACAAGTGGAACTTGCATGGACAACCTGTATCTTTCCTCCTGAAGGAAGTAAAAGGAAAAGAT
TCCCGATGTGCCAGGATTCTCCTGGGTGACTCCCTGTATATCTGCCAAGGATATTGTGTATATTGGCTTGAGAGA
CGTGGACCCTGGGGAACACTACATTTTGAAAACCTCTAGGCATTAAATACTTTTCAATGACTGAAGTGGACAGACT
AGGAATTGGCAAGGTGATGGAAGAAACACTCAGCTATCTACTAGGAAGAAAGAAAAGGCCAATTCATCTAAGTTT
TGATGTTGACGGACTGGACCCATCTTTCACACCAGCTACTGGCACACCAGTCGTGGGAGGTCTGACATACAGAGA
AGGTCTCTACATCACAGAAGAAATCTACAAAACAGGGCTACTCTCAGGATTAGATATAATGGAAGTGAACCCATC
CCTGGGGAAGACACCAGAAGAAGTAACCTCGAACAGTGAACACAGCAGTTGCAATAACCTTGGCTTGTTCGGACT
TGCTCGGGAGGGTAATCACAAGCCTATTGACTACCTTAACCCACCTAAGTAAATGTGGAAACATCCGATATAAAT
CTCATAGTTAATGGCATAATTAGAAAGCTAATCATTTTCTTAAGCATAGAGTTATCCTTCTAAAGACTTGTTCTT
TCAGAAAAATGTTTTTCCAATTAGTATAAACTCTACAAATTCCCTCTTGGTGTAATAATCAAGATGTGGAAATTC
TAACTTTTTTGAAATTTAAAAGCTTATATTTTCTAACTTGGCAAAAGACTTATCCTTAGAAAGAGAAGTGTACAT
TGATTTCCAATTAAAAATTTGCTGGCATTAAAAATAAGCACACTTACATAAGCCCCCATACATAGAGTGGGACTC
TTGGAATCAGGAGACAAAGCTACCACATGTGGAAAGGTACTATGTGTCCATGTCAATTCAAAAAATGTGATTTTTT
ATAATAAACTCTTTATAACAAG

702/2777
FIGURE 618

MSAKSRTIGIIIGAPFSKGQPRGGVEEGPTVLRKAGLLEKLKEQECVKDYGDLPFADIPNDSPFQIVKNPRSVGK
ASEQLAGKVAEVKKNGRISLVLGGDHSLAIGSISGHARVHPDLGVIWVDAHTDINTPLTTTSGNLHGQPVSFLLK
ELKGKIPDVPGFSWVTPCISAKDIVYIGLRDVPGEHYILKTLGIKYFSMTEVDRLGIGKVMEETLSYLLGRKKR
PIHLSFDVDGLDPSFTPATGTPVVGGLTYREGLYITEEIIYKTGLLSGLDIMEVNP SLGKTPEEVTRTVNTAVAIT
LACFGLAREGNHKPIDYLNPPK

FIGURE 619

CCGTGCAGTCCGAGATGGGCTCGTCTCGGGCACCTGGATGGGGCGTGTGGGTGGGCACGGGATGATGGCACTGC
TGCTGGCTGGTCTCCTCTGCCAGGGACCTTGGCTAAGAGCATTGGCACCTTCTCAGACCCCTGTAAGGACCCCA
CGCGTATCACCTCCCCTAACGACCCCTGCCTCACTGGGAAGGGGTGACTCCAGCGGCTTCAGTAGCTACAGTGGCT
CCAGCAGTTCTTGGCAGCTCCATTTCAGTGCCAGAAGCTCTGGTGGTGGCTCCAGTGGTAGCTCCAGCGGATCCA
GCATTGCCCAGGGTGGTTCTGCAGGATCTTTTAAGCCAGGAACGGGGTATTCCCAGGTCAGCTACTCCTCCGGAT
CTGGCTCTAGTCTACAAGGTGCATCCGGTTCTCTCCAGCTGGGGAGCAGCAGCTCTCACTCGGAAGCAGCGGCT
CTCACTCGGAAGCAGCAGCTCTCATTGAGCAGCAGCAGCAGCTTTCAGTTCAGCAGCAGCAGCTTCCAAGTAG
GGAATGGCTCTGCTCTGCCAACCAATGACAACTCTTACCGCGGAATACTAAACCCCTTCCAGCCTGGACAAAGCT
CTTCTCTTCCCAAACCTCTGGGGTATCCAGCAGTGGCCAAAGCGTCAGCTCCAACCAGCGTCCCTGTAGTTCGG
ACATCCCCGACTCTCCCTGCAGTGGAGGGGCCATCGTCTCGCACTCTGGCCCCCTACATCCCCAGCTCCCACTCTG
TGTCAGGGGGTCAAGGCCTGTGGTGGTGGTGGTGGACAGCACGGTTCTGGTGGCCCTGGAGTGGTTCAAGGT
CCCCCTGTAGCAATGGTGGCCTTCCAGGCAAGCCCTGTCCCCCAATCACCTCTGTAGACAAATCCTATGGTGGCT
ACGAGGTGGTGGGTGGCTCCTCTGACAGTTATCTGGTTCCAGGCATGACCTACAGTAAGGGTAAATCTATCCTG
TGGGCTACTTACCAAAGAGAACCCTGTGAAAGGCTCTCCAGGGGTCCCTTCTTTGCAGCTGGGGCCCCCATCT
CTGAGGGCAAATACTTCTCCAGCAACCCCATCATCCCCAGCCAGTCGGCAGCTTCTCTGGCCATTGCGTTCCAGC
CAGTGGGGACTGGTGGGGTCCAGCTCTGTGGAGGCGGCTCCACGGGCTCCAAGGGACCCCTGCTCTCCCTCCAGTT
CTCGAGTCCCCAGCAGTTCTAGCATTTCCAGCAGCGCGGTTACCCCTACCATCCCTGCGGCAGTGCTTCCCAGA
GCCCCTGCTCCCCACCAGGCACCGGCTCCTTCAGCAGCAGCTCCAGTTCCAATCGAGTGGCAAAATCATCCTTC
AGCCTTGTTGGCAGCAAGTCCAGCTCTTCTGGTCAACCCTTGCAATGCTGTCTCTCTCTTGCAGTACTGAGTGGGGCC
CCGATGGCTCTCCCCATCCTGATCCCTCCGCTGGTGCCAAGCCCTGTGGCTCCAGCAGTGCTGGAAAGATCCCC
GCCGCTCCATCCGGGATATCCTAGCCCAAGTGAAGCCTCTGGGGCCCCAGCTAGCTGACCCTGAAGTTTTCTAC
CCCAAGGAGAGTTACTCGACAGTCCAATAAGTCAACTGTTGTGTGTGTGCATGCCTTGGGCACAAACAAGCACATA
CACTATATCCCATATGGGAGAAAGGCCAGTGCCCAAGGCATAGGGTTAGCTCAGTTTCCCTCCTTCCCAAAGAGTG

704/2777
FIGURE 620

MGSSRAPWMGRVGGHGMALLLAGLLLPGLAKSIGTFSDPCKDPTRITSPNDPCLTGKGDSSGFSSYSGSSSSG
SSISSARSSGGGSSGSSSGSSIAQGSAGSFKPGTGYSQVSYSSSGSSSLQGASGSSQLGSSSSSHGSSSGSHSGS
SSSHSSSSSSSFQFSSSSSFQVGNGSALPTNDNSYRGILNPSQPGQSSSSSQTSQVSSSGQSVSSNQRPCSSDIPDS
PCSGGPIVSHSGPYIPSSHSVSGGQRPVVVVVDQHGSGAPGVVQGPPCSNGGLPGKPCPPITSVDKSYGGYEVVG
GSSDSYLVPGMTYSKGKIYPVGYFTKENPVKGSPGVPSFAAGPPISEGKYFSSNPIIPSQSAASSAIAFQPVGTG
GVQLCGGGSTGSKGPCSPSSSRVPSSSSISSSAGSPYHPCGSASQSPCSPPGTGFSFSSSSSSQSSGKIILQPCGS
KSSSSGHPCMSVSSLTLTGPDGSPHPDPSAGAKPCGSSSAGKIPCRSIRDILAQVKPLGPQLADPEVFLPQGEL
LDSP

705/2777
FIGURE 621

AAAGGAGACTGGCCGCTGGGGCTCAGGACCGGGATTATCCGAGCTCTGCAGAAGTGCACCGCTATTGCTTTGGGA
GGGTAAAAAAAAAAAAATCACACGGTTTCCAGTGAAAAAGTGACAGAGGGTGGTGGCCTTTGGAACCGTCGTGAAG
TCTTCTGCCTGGAACCCGAACTTGCATGCTATGGAACACCCGCTCTTTGGCTGCCTGCGCAGCCCTCACGCCAC
GGCGCAAGGCTTGCACCCGTTCTCCCAATCCTCTCTCGCCCTCCATGGAAGATCTGACCATATGTCTTACCCCGA
GCTCTCTACTTCTTCCTCATCTTGCATAATCGCGGGATACCCCAACGAAGAGGGCATGTTTGCCAGCCAGCATCA
CAGGGGGCACCACCACCACCACCACCACCACCATCACCACCATCAGCAGCAGCAGCAGCAGCAGCAGGCTCTGCAAACCAA
CTGGCACCTCCCGCAGATGTCTTCCCCACCGAGTGGGCTCGGCACAGCCTCTGCCTCCAGCCCGACTCTGGAGG
GCCCCAGAGTTGGGGAGCAGCCCGCCCGTCTGTGCTCCAACCTCTTCCAGCTTGGGCTCCAGCACCCCGACTGG
GGCCGCGTGC GCGCCGGGGGACTACGGCCGCCAGGCACTGTACCTGCGGAGGCGGAGAAGCGAAGCGGCGGCAA
GAGGAAAAGCGACAGCTCAGACTCCCAGGAAGGAAATTACAAGTCAGAAAGTCAACAGCAAACCCAGGAAAGAAAG
GACAGCATTTACCAAAGAGCAAATCAGAGAATTGAAGCAGAATTTGCCCATCATAATTATCTCACCAGACTGAG
GCGATACGAGATAGCAGTGAATCTGGATCTCACTGAAAGACAGGTGAAAAGTCTGGTTCCAAAACAGGCGGATGAA
GTGGAAGAGGGTAAAGGTGGACAGCAAGGAGCTGCGGCTCGGGAAAAAGAACTGGTGAATGTGAAAAAGGGAAC
ACTTCTCCCATCAGAGCTGTGCGGAATTGGTGCAGCCACCCTCCAGCAAACAGGGGACTCTATAGCAAATGAAGA
CAGTCACGACAGTGACCACAGCTCAGAGCATGCGCACTTATGATATAAAACAGAGGACCAGCTCCATTCTCAGGAA
AGAAATGTTGTGATGGCAAGCCTTACCCAAATATCGTTTACACAGAGAGATGACTATGGCAGTGATGTTTAATAT
TATTAAATCCAGGCATTTGAACTGTGTTTTTTCATGATTTATAGAGGGTTTACACAAAGTGCCACTTATTAAAGAG
CTTCCACAGTGAAGATGGAGAAGGTGAACCTTGCTTTGAATATTCCAGATGTGTTTGGTTCGTGCGTATGGCAGTGA
GCAGGTATGTGTTTGCTTTTGCTTGCACTGAAAATTAAATTGCTATCAAGAGCAAACCTATGAACGGTTTTTTTATT
CAAGATGTCTCCAGAGTGAAGATGCCGAGGATGAACCTTGCAATTGAACATTCCAGATGTGTGAGATCATGTGTATT
ACAGTGGGCAGGTATTTGCTTTTGCTTGCACTGAAAATTAAATTGCTATCAAGAGCAAACCTATGAACGGTTTTTTTATT
CCTGAACAGCCACAGTGCCTGAATTCACCTCAAGTGGATAAAAAGTGATTTTAACTCTGTATATATTACCCTTAA
GTCATTTTCTGTCTTCACCTAATTTAGCAATGCATTATATTAGCTGATGAAAATAGGCACTCACAATGACAACC
AGAGCCAGTTTCTTGTCTTTTTTATACATTTTGTATCCAGAGACAATCAGTATGTGCTTACCTGTGTTCAAGT
AGAGAAAAATACAGTAGAGTCTGATAGGACATATTCTTGTACCACAGACAAAACAAATCTTATGTTGCATTTACT
ATCAACTGCTGCTAATACGTTATTATAAACTTACCTAGCTCCTGAATTCTTCTATCTTATAGCTTAAAAAAT
TAGGATCATAGGCAAATCAGTTACCTTGCAAGAGAGCTTTGTATGACAGACATTGTCTTATTTTATTTCTGTAA
AATATTAGCTGTATGAATATGATTTAATTAACAAGAAAACATTTCTTCTGATTGACAACAGTGTTAGACAAGGT
GCAAAGCGAAACTGGTTGCTCAAGTTGATAGAAAACAAATTTCTGAATATCTTCAAATTAATTCGGTAAAAACA
CATTATTTTTTTCATATGTGATGTATTCATGCAGAACAACTATCTTTGTATTTTGTGTTTTAAATGTGTTTAATAA
ATGATCCTTTGTAAATAAAAAAAAAAAAAAAAAAAAAA

706/2777
FIGURE 622

MEHPLFGCLRSPHATAQGLHPFSQSSIALHGRSDHMSYPELSTSSSSCIIAGYPNEEGMFASQHHRGHHHHHHHH
HHHHQQQQHQALQTNWHLPMSSPPSAARHSLCLQPDSGGPPELGSSPPVLCNSSLGSSTPTGAACAPGDYGR
QALSPAEEKRSGGKRKSDSSDSQEGNYKSEVNSKPRKERTAFTEQIRELEAEFAHNNYLTRLRRYEIAVNLDL
TERQVKVWFQNRMRKWKRVKGGQQGAAAREKELVNVKGTLLPSELGIGAATLQQTGDSIANEDSHDSHSSEH
AHL

707/2777
FIGURE 623

CGACATCAGAGATGAGGACAGCATTGCTGCTCCTTGCAGCCCTGGCTGTGGCTACAGGGCCAGCCCTTACCCTGC
GCTGCCACGTGTGCACCAGCTCCAGCAACTGCAAGCATTCTGTGGTCTGCCCGGCCAGCTCTCGCTTCTGCAAGA
CCACGAACACAGTGGAGCCTCTGAGGGGGAATCTGGTGAAGAAGGACTGTGCGGAGTCGTGCACACCCAGCTACA
CCCTGCAAGGCCAGGTCAGCAGCGGCACCAGCTCCACCCAGTGCTGCCAGGAGGACCTGTGCAATGAGAAGCTGC
ACAACGCTGCACCCACCCGCACCGCCCTCGCCACAGTGCCCTCAGCCTGGGGCTGGCCCTGAGCCTCCTGGCCG
TCATCTTAGCCCCCAGCCTGTGACCTTCCCCCAGGGAAGGCCCTCATGCCTTTCCTTCCCTTTCCTGTTGGGAT
TCCACACCTCTCTTCCCCAGCCGGCAACGGGGGTGCCAGGAGCCCCAGGCTGAGGGCTTCCCCGAAAGTCTGGGA
CCAGGTCCAGGTGGGCATGGAATGCTGATGACTTGGAGCAGGCCCCACAGACCCACAGAGGATGAAGCCACCCC
ACAGAGGATGCAGCCCCCAGCTGCATGGAAGGTGGAGGACAGAAGCCCTGTGGATCCCCGGATTTCACACTCCTT
CTGTTTTGTTGCCGTTTATTTTGTACTCAAATCTCTACATGGAGATAAATGATTTAAACC

708/2777
FIGURE 624

MRTALLLLAALAVATGPALTLRCHVCTSSSNCKHSVCPASSRFCKTTNTIVEPLRGNLVKKDCAESCTPSYTLQG
QVSSGTSSTQCCQEDLCNEKLHNAAPTRTALAHSALSGLALSLLAVILAPSL

709/2777
FIGURE 625

GGGCGCCGGGCGGGGCCAGCGGCGCATTAGACGCCCTTGTAACATTGGGTGCTCAGACATTGCTCCGGCCTCCGCGTCC
GCGCCAGCGCGCCAGCGACGTGCGGGCGGCCTGGCCCGCGCCCTCCCGCGCCCGGCCTGCGTCCCGCGCCCTG
CGCCACCGCCCGCGAGCCGACGCCCGCCGCGCGCCCCCGGCAGCGCCGGCCCCATGCCCGCGCGCGCGGGGCC
CCGCGCGCCCAATCCGCGCGGGCGGCCGCCGCGTGTGCTGCCCCCTGCTGCTGCTGCTCTGCGTCTCGGGGCGCCGC
GAGCCGGATCAGGAGCCACACAGCTGTGATCAGTCCCCAGGATCCACGCTTCTCATCGGCTCCTCCCTGCTGG
CCACCTGCTCAGTGACGAGACCCACCAGGAGCCACCGCCGAGGGCCTCTACTGGACCCTCAACGGGCGCGGCC
TGCCCCCTGAGCTCTCCCGTGTACTCAACGCCCTCCACCTTGGCTCTGGCCCTGGCCAACCTCAATGGGTCCAGGC
AGCGGTGCGGGGGACAACCTCGTGTGCCACGCCCGTGACGGCAGCATCCTGGCTGGCTCCTGCCTCTATGTTGGCC
TGCCCCCAGAGAAAACCGTCAACATCAGCTGCTGGTCCAAGAATGAAGGACTTGACCTGCCGCTGGACGCCAG
GGGCCCCACGGGGAGACCTTCTCTCCACACCAACTACTCCCTCAAGTACAAGCTTAGGTGGTATGGCCAGGACAACA
CATGTGAGGAGTACCACACAGTGGGGCCCCACTCCTGCCACATCCCCAAGGACCTGGCTCTCTTTACGCCCTATG
AGATCTGGGTGGAGGCCACCAACCGCCTGGGCTCTGCCCGCTCCGATGTACTCACGCTGGATATCCTGGATGTGG
TGACCACGGACCCCCCGCCCGACGTGCACGTGAGCCGCGTTCGGGGGCGCTGGAGGACCAGCTGAGCGTGCCTGGG
TGTGCCACCCCGCCCTCAAGGATTTCTCTTTCAAGCCAAATACCAGATCCGCTACCGAGTGGAGGACAGTGTGG
ACTGGAAGGTGGTGGACGATGTGAGCAACCAGACCTCCTGCCGCTGGCCGGCCTGAAACCCGGCACCGTGTACT
TCGTGCAAGTGCCTGCAACCCCTTTGGCATCTATGGCTCCAAGAAAGCCGGGATCTGGAGTGAGTGGAGCCACC
CCACAGCCGCTCCACTCCCCGCAGTGAGCGCCCGGGCCCGGGCGGGGCGTGCGAACCGGGGGCGGAGAGC
CGAGCTCGGGGCCGGTGCGGCGCGAGCTCAAGCAGTTCTTGGGCTGGCTCAAGAAGCACGCGTACTGCTCCAACC
TCAGCTTCCGCTCTACGACCAGTGGCGAGCCTGGATGCAGAAAGTCGCACAAGACCCGCAACCAGGACGAGGGGA
TCCTGCCCCGCGGCGAGACGGGGCACGGCGAGAGGTCTTGGCAGATTAAGCTGTAGGGGCTCAGGCCACCCTCCCTG
CCACGTGGAGACGCAGAGGCCGAACCCAACTGGGGCCACCTCTGTACCCTCACTTCAGGGCACCTGAGCCACCC
TCAGCAGGAGCTGGGGTGCCCCCTGAGCTCCAACGGCCATAACAGCTCTGACTCCACGCTGAGGCCACCTTTGGG
TGCACCCAGTGGGTGTGTGTGTGTGTGTGAGGGTTGGTTGAGTTGCCTAGAACCCCTGCCAGGGCTGGGGGTGA
GAAGGGGAGTCATTACTCCCCATTACCTAGGGCCCCCTCCAAAAGAGTCCTTTTAAATAAATGAGCTATTTAGGTG
CAA

710/2777
FIGURE 626

MPAGRRGPAAQSARRPPPLPLLLLLLCVLGAPRAGSGAHTAVISPDPTLLIGSSLLATCSVHGDPFGATAEGLY
WTLNGRRLPPELSRVLNASTLALALANLNGSRQSGDNLVCHARDGSILAGSCLYVGLPPEKPVNISCWSKNMKD
LTCRWTPGAHGETFLHTNYSKYKLRWYGQDNTCEEYHTVGPHSCHIPKDLALFTPYEIWVEATNRLGSARSDVL
TLDILDVVTTDPPPDVHVS RVGGLEDQLSVRWVSPALKDFLFQAKYQIRYRVEDSVDWKVDDVSNQTSCLAG
LKPGTVYFVQVRCNPFGIYGSKKAGIWSEWSHPTAASTPRSERPGPGGGACEPRGGEPSSGPVRRELKQFLGWLK
KHAYCSNLSFRLYDQWRAWMQKSHKTRNQDEGILPSGRRGTARGPAR

711/2777
FIGURE 627

GGGAATAGCAGAATAGGAGCAAGCCAGCACTAGTCAGCTAACTAAGTGACTCAACCAAGGCCTTTTTCTTGT
ATCTTTGCAGATACTTCATTTTCTTAGCGTTTCTGGAGATTACAACATCCTGCGGTTCCGTTTCTGGGAACTTTA
CTGATTTATCTCCCCCTCACACAAATAAGCATTGATTCTGCATTTCTGAAGATCTCAAGATCTGGACTACTGT
TGAAAAAATTTCCAGTGAGGCTCACTTATGTCTGTAAAGATGGGAAAAAATACAAGAACATTGTTCTACTAAAA
GGATTAGAGGTCATCAATGATTATCATTTTAGAATGGTTAAGTCCTTACTGAGCAACGATTTAAAACTTAATTTA
AAAATGAGAGAAGAGTATGACAAAATTCAGATTGCTGACTTGATGGAAGAAAAGTTCCGAGGTGATGCTGGTTTG
GGCAAATAATAAAAAATTTTCGAAGATATACCAACGCTTGAAGACCTGGCTGAAACTCTTAAAAAGAAAAAGTTA
AAAGTAAAGGACCAGCCCTATCAAGAAAGAGGAAGAAGGAAGTGCATGCTACTTCACCTGCACCCCTCCACAAGC
AGCACTGTCAAAACTGAAGGAGCAGAGGCAACTCCTGGAGCTCAGAAAAGAAAAAATCAACCAAGAAAAAGGCT
GGACCCAAAGGGAGTAAGGTGTCCGAGGAACAGACTCAGCCTCCCTCTCCTGCAGGAGCCGGCATGTCCACAGCC
ATGGGCCGTTCCCATCTCCCAAGACCTCATTGTGAGCTCCACCCAACAGTTCTTCAACTGAGAACCCGAAAAACA
GTGGCCAAATGTCAGGTAACCTCCAGAAGAAATGTTCTCCAAAACGCCAGTGATAGTGAAGGTACTGAGTACA
ACAAAGCCATTTGAATATGAGACCCAGAAATGGAGAAAAAATAATGTTTCATGCTACAGTGGCTACACAGACA
CAGTTCTTCCATGTGAAGGTTTTAAACACCAGCTTGAAGGAGAAATTCAATGGAAAGAAAAATCATCATATCA
GATTATTTGGAATATGATAGTCTCCTAGAGGTCAATGAAGAATCTACTGTATCTGAAGCTGGTCCTAACCAAACG
TTTGAGGTTCCAAATAAAATCATCAACAGAGCAAAGGAAACTCTGAAGATTGATATTCTTCACAAACAAGCTTCA
GGAAATATTGTATATGGGGTATTTATGCTACATAAGAAAACAGTAAATCAGAAGACCACAATCTACGAAATTCAG
GATGATAGAGGAAAAATGGATGTAGTGGGGACAGGACAATGTACAATATCCCCTGTGAAGAAGGAGATAAGCTC
CAGCTTTTCTGCTTTTCGACTTAGAAAAAAGAACCAGATGTCAAACTGATTTTCAGAAATGCATAGTTTATCCAG
ATAAGAAAAAAACAAACCCGAGAAACAATGACCCCAAGAGCATGAAGCTACCCAGGAACAGCGTCAGCTTCCA
TATCCTTCAGAGGCCAGCACAACTTCCCTGAGAGCCATCTTCGGACTCCTCAGATGCCACCAACAACCTCCATCC
AGCAGTTTCTTCACCAAGAAAAAGTGAAGACACAATCTCCAAAATGAATGACTTCATGAGGATGCAGATACTGAAG
GAAGGGAGTCATTTTCCAGGACCGTTCATGACCAGCATAGGCCAGCTGAGAGCCATCCCCACACTCCTCAGATG
CCTCCATCAACACCAAGCAGCAGTTTCTTAACCACGTTGAAACCAAGACTGAAGACTGAACCTGAAGAAGTTTCC
ATAGAAGACAGTGCCAGAGTGACCTCAAAGAAGTGATGGTGCTGAACGCAACAGAATCATTTGTATATGAGCCC
AAAGAGCAGAAGAAAATGTTTCATGCCACAGTGGCAACTGAGAATGAAGTCTTCCGAGTGAAGGTTTTTAATATT
GACCTAAAGGAGAAGTTCACCCCAAAGAAGATCATTGCCATAGCAAATTATGTTTGCCGAATGGGTTCCTGGAG
GTATATCCTTTCACACTTGTGGCTGATGTGAATGCTGACCGAAACATGGAGATCCCAAAAGGATTGATTAGAAGT
GCCAGCGTAACTCCTAAATCAATCAGCTTTGCTCACAACTAAAGGAAGTTTTGTGAATGGGGTGTGTTGAGGTA
CATAAGAAAAATGTAAGGGGTGAATTCACCTATTATGAAATACAAGATAATACAGGGGAAGATGGAAGTGGTGGTG
CATGGACGACTGAACACAATCAACTGTGAGGAAGGAGATAAACTGAAACTCACCAGCTTTGAATTGGCACCAGAAA
AGTGGGAATACCGGGGAGTTGAGATCTGTAATTCATAGTCACATCAAGGTCATCAAGACCAGGAAAAACAAGAAA
GACATACTCAATCCTGATTCAAGTATGGAACTTCACCAGACTTTTTCTTCTAAATCTGGATGTCAATTGACGAT
AATGTTTATGGAGATAAGGTCTAAGTCCCTAAAAAATGTACATATACCTGGTTGAAATACAACACTATACATAC
ACACCACCATATATACTAGCTGTTAATCCTATGGAATGGGGGTATTGGGAGTGCTTTTTTAATTTTTTCATAGTTT
TTTTTTAATAAAATGGCATATTTTGCATCTACAACCTCTATAATAAGAAAAAATAAATAAACATTATCTTTTTTG
TGAAAAAA

712/2777
FIGURE 628

MGKKYKNIVLLKGLEVIN DYHFRMVKSLLSNDLKLNLKMREEYDKIQIADLMEEKFRGDAGLGKLIKIFEDIPTL
EDLAETLKKEKLKVKGPALSRKRKKEVHATSPAPSTSSTVKTEGAEATPGAQKRKKSTKEKAGPKGSKVSEEQTQ
PPSPAGAGMSTAMGRSPSPKTSLSAPPNSSSTENPKTVAKCQVTPRRNVLQKRPVIVKVLSTTKPFYEYETPEMEK
KIMFHATVATQTQFFHVKVLNTSLKEKFNGKKIIISDYLEYDSLLEVNEESTVSEAGPNQTFEVPNKIINRAKE
TLKIDILHKQASGNIVYGVMFLHKKTVNQKTTIYEIQDDRGKMDVVG TGQCHNIPCEEQDKLQLFCFRLRKKNQ
SKLISEMHSFIQIKKKTNP RRNDPKSMKLPQEQRQLPYPSEASTTFPESHLRTPQMPPTTPSSSF TTKKSEDTIS
KMNDFMRMQILKEGSHFPGPFMTSIGPAESHPTPQMPSTPSSSFLTTLKPRLKTEPEEVSIEDSAQSDLKEVM
VLNATESFVYEPKEQKKMFHATVATENEVFRVKVFENIDLKEKFTPKKIIAIAANYVCRNGFLEVYPFTLVADVNAD
RNMEIPKGLIRSASVTPKINQLCSQTKGSFVNGVFEVHKKNVRGEFTYYEIQDNTGKMEVVVHGRLNTINCEEGD
KLKLTSEFELAPKSGNTGELRSVIHSHIKVIKTRKNKKDILNPDSSMETSPDFFF

713/2777
FIGURE 629

CGGGTGCCATGCAGCTTTCTCTAATTTGCTCTCAGTTCTTGGCTATGAATTGCTAACTATCAGTCTCGCGCTCA
CCGCCCCGGCTGAGGAGGTGAAAGTTTCTCCCCAGGAAGATAAACCGCAAAGACATATATTGTGCATGATTTGCG
CCTTTTCTTTGGCTTTTTCTTTCTTTCTTACCCCCCACCCTTTTTTTTTTTTTTTTTTTTCAAAAAGCAGAGA
GGGAAAAACGGAGAGTGAAGGAGCGAGGAGGCGAGCGTGAGAGAAAGGAGAGAGAGAGAAAAGAAAGGGCGAGGG
GCTAGTGGAGGAAGGAAGGAGGGGCGGCTGCGCGAGGCGGAGAGAGGGCGAAGCAGTCGCGGCACTGGCGCTCAC
ATTCTCTATGCTACAAATCCAGGAGGAAGTTTTTTTTTAGGGGGCTGAGATGCTCCATGCCTTTAAAAGGGCAG
CCTTGACGCGCGGCCCTCTCGGCAGAGACTGAGCGGCGAGAAAGTGCAGAGCCGGGCCGAGAACTGCTGCGGCG
GGCGCTGGAGCCTGCGTTACTCGCGGCCCGCAGCCGTCCGGCTACTTTGCGTTTGGCCCCGGCCAGCGCCGCGCGG
CGCGCGCGCGCCATTGCCTGCAGGCTAGGACTTCGCGAGGTGGGTGCACTACCCCTCCCTCCTCCTCTTCTTCTCT
CCTCTTCTCCTCCTCCTTGTCTCTCCTCCTCCTCCCGATTTTCCCTCCTCGGCTGGCGAGGGTGGGGGGGGCGGG
GGAGGCCGGGGCTCGCCCCGAGCAGCCACGATGCTCTGAGCGCCGGCCCCCAGTACCCAGCGATCGGCGTGACC
ACCTTTGGCGCGTCCCGCCACCCTCCGCGGGCGAGCTGGCCGAACGAGACGTGGGCCTGGGCATCAACCCGTTT
GCCGACGGCATGGGCGCCTTCAAGCTCAACCCCCAGTTTCGCACGAGCTGGCTTCGGCCGGCCAGACAGCCTTCACG
TCGCAGGCGCCAGGCTACGCGGCTGCTGCGGCCCTGGGCCATCACCATCACC CGGGCCACGTGCGCTCCTATTCC
AGCGCAGCCTTCAACTCCACGCGGGACTTTCTGTTCCGCAACCGGGTTTTTGGCGACGCGCGGGCGGCAGCCAGC
GCACAGCACAGCCTCTTTGCTGCATCGGCCGGGGGCTTCGGGGGGCCACACGGCCACACGGACGCCGCGGGCCAC
CTCCTCTTCCCCGGGCTTCACGAGCAGGCTGCCGGCCACGCGTCGCCTAACGTGGTCAACGGGCAGATGAGGCTC
GGCTTCTCGGGGGACATGTACCCGCGACCGGAGCAGTACGGCCAGGTGACCAGCCGCGTTTCGGAGCACTATGCT
GCGCCGCGAGCTGCACGGCTACGGGCCCATGAACGTGAACATGGCCGCGCATCACGGCGCGGCGCCTTCTTCCGC
TACATGCGCCAACCCATCAAGCAAGAGCTCATCTGCAAGTGGATCGAGCCCGAGCAGCTGGCCAACCCCAAAAAG
TCGTGCAACAAAACCTTTCAGCACCATGCACGAGCTAGTTACGCACGTACCCGTGGAGCACGTAGGTGGCCCGGAG
CAGAGTAATCACATCTGCTTCTGGGAGGAGTGTCCGCGCGAGGGCAAGCCCTTCAAAGCCAAATACAACTGGTT
AACCACATCCGCGTGCACACGGGCGAGAAGCCCTTTCCCTGCCCTTCCCTGGCTGTGGCAAGGTCTTCGCGCGC
TCCGAGAATTTAAAGATCCACAAAAGGACGCACACAGGGGAGAAGCCCTTCAAGTGCAGATTTGAGGGCTGTGAC
CGGCGCTTCGCTAACAGCAGCGACCGCAAGAAGCACATGCACGTGCACACGAGCGACAAGCCCTATCTTTGCAAG
ATGTGCGACAAGTCTTACACGCATCCCAGTTCCGTGCGCAAACACATGAAGGTCCACGAATCCTCCTCGCAGGGC
TCGCAGCCTTCGCCGGCCGCGAGCTCTGGCTACGAATCCTCCACGCCTCCACCATCGTGTCTCCTCCACAGAC
AACC CGACCACAAGCTCCTTATCGCCCTCCTCCTCCGAGTCCACCACACAGCCGGCCACAGTGCCTCTCTTCC
AATTTTAACGAATGGTACGTTTAAAAATCAGAAACAAAACATCGAACAAAACCCTATTTAAGAGACTTGATCACAC
ACGTATACACAACATTACTGAAAGAACCCTGCGAATCAAAACAACCCCCACACAGACCCCGCAATCCTCTTTTAA
AAAATCTGCCAATAGACCCAGGACGAGTAAGAGAGGAAGCATCAACCTTTTAAAAATTTCTTTTCGCTTTTCTTAA
TTTTTCTTTTTTTGGCAAAGGCTTGGTACCCAAGGTGCGGTAGGGGGTTCGAGGGGGAGGAGGCCACCTGACCAAA
TGCCGCCAACCCCGAGGGCCAGTTTCTTGTGCAATTGGTACGGGCTCTCTGGGGCTTCGGCTTCTTTTTTTCTTT
GTTTTCTTGTAAATACAGAATTATTAGCTTAAACTGTACTGTTGAATTCTGTAAATAGTTATATCTCGGTTGGA
GCGGGTGGGTGGGATTGTGGCGTTGTGGTCTTTGCATTGGGGGAGGGGGGAGGGACCGGATGGGCGGGGGGAGGG
GGAGGGGGAGGGGTGGGCGGCCGAAAGCCAACTGTTTGTACTGAATGGCAAGAATGTTCTAGTAAATGTGTACCA
AAATGTGAATTACTTTGTACGATTACAGTCTCCACGTGACCTAACCCAATATTATTGGTATTAATGTGCTTTTT
TTGTATAAAGTGCAACATTTTCGTCCCAAAGTCTAAGTACTTTAGTGCAGTAAATGTTGTTTCATGTCTGTCA
AGAATTGCTATAGTACGAGCCTGGATCTGCGTGTCAAACGTGTTCCATTTGTTTATGTAAAGTGATATTA AAAAG
ATATAAACTATAACTGTCCGTTACTTTTGGCAAAGATACAACCACATAATGTATATAATTCTAGTTTCCATAT
TTATCCGCAITGTAAGGGCCGGTTTATCCATGTTACAGCTCTTCAATATTTATGGCTAGAAGAAGTCTGATGTAC
ACTTTAGTTTCCAGAAGTGTGGTAACCTTTCGTACCTTATTAAAGATTCTTAAATCTCAA

714/2777
FIGURE 630

MLLDAGPQYPAIGVTTFGASRHHSAGDVAERDVGLGINPFADGMGAFKLNPSSELASAGQTAFTSQAPGYAAAA
ALGHHHPGHVGSYSSAAFNSTRDFLFRNRGFGDAAAAASAQHSIFAASAGGFGGPHGHTDAAGHLLFPGLHEQA
AGHASPNNVNGQMRGFGSGDMYPRPEQYQVTSRSEHYAAPQLHGYGPMNVNMAAHHGAGAFFRYMRQPIKQEL
ICKWIEPEQLANPKKSCNKTFTMHVTHVTVEHVGGPEQSNHICFWEECPREGKPFKAKYKLVNHIRVHTGEK
PFPCPFPGCGKVFARSENKIHKRTHTEKPFKCEFECDRRFANSSDRKKHMHVHTSDKPYLCKMCDKSYTHPS
SVRKHMKVHESSQGSQPSAASSGYESSTPPTIVSPSTDNPTTSSLSPSSSAVHHTAGHSALSSNFNEWYV

715/2777
FIGURE 631

GACAGCGGCTTCCTTGATCCTTGCCACCCGCGACTGAACACCGACAGCAGCAGCCTCACCATGAAAGTTGCTGATG
GTCCTCATGCTGGCGGCCCTCTCCCAGCACTGCTACGCAGGCTCTGGCTGCCCCTTATTGGAGAATGTGATTTC
AAGACAATCAATCCACAAGTGTCTAAGACTGAATACAAAGAACTTCTTCAAGAGTTCATAGACGACAATGCCACT
ACAAATGCCATAGATGAATTGAAGGAATGTTTTCTTAACCAAACGGATGAACTCTGAGCAATGTTGAGGTGTTT
ATGCAATTAATATATGACAGCAGTCTTTGTGATTTATTTTAACTTTCTGCAAGACCTTTGGCTCACAGAACTGCA
GGGTATGGTGAGAAACCAACTACGGATTGCTGCAAACCACACCTTCTCTTTCTTATGTCTTTTTACTACAAACTA
CAAGACAATTGTTGAAACCTGCTATACATGTTTATTTTAATAAATTGATGGCA

716/2777
FIGURE 632

MKLLMVLMLAALSQHCYAGSGCPLEENVISKTNPQVSKTEYKELLQEFIDDNATTNAIDELKECFLNQTDETLS
NVEVFMQLIYDSSLCDLF

717/2777
FIGURE 633

GTCTACTTATCAATAAGCAGCTGCCTGTGCAGAGTGCAGGCTGCACCTTTGGACAGCCTTTAAACTGAATTCTC
AGAATTTTGAACAAATTTTGTCTAGAAATGCTGACTTTGGTTCATTAGGTAGTGGTAAACAGGCTCCCTTCG
AAGCTCTCCTTCATCACCTTCCTAAGTGCATGTACAGGGAAGCTCTCCTTCATCACCTTCCTAAGTGCATGGGG
AAAATACCTAGGGCTCAACAGTCTTGAGAAGTGTGGAAACATTTTCTTTGTGAGTGAGAACAGATCACCTAGAGA
AAGGAAACCAGATTCCCATCACTGCTTCTGGGTATCAGATGCTAGCGCTGCACTCCATTTTGCAATGSCCTCCCT
TGCTGCAGCAAATGCAGAGTTTTGCTTCAACCTGTTTCAGAGAGATGGATGACAATCAAGGAAATGGAAATGTGTT
CTTTTCCTCTCTGAGCCTCTTCGCTGCCCTGGCCCTGGTCCGCTTGGGCGCTCAAGATGACTCCCTCTCTCAGAT
TGATAAGTTGCTTCATGTAACTGCCTCAGGATATGGAACTCTTCTAATAGTCAGTCAGGGCTCCAGTCTCA
ACTGAAAAGAGTTTTTTCTGATATAAAATGCATCCCACAAGGATTATGATCTCAGCATTGTGAATGGGCTTTTTGC
TGAAAAGTGTATGGCTTTTCATAAGGACTACATTGAGTGTGCCGAAAAATTATACGATGCCAAAGTGGAGCGAGT
TGACTTTACGAATCATTTAGAAGACACTAGACGTAATATTAATAAGTGGGTTGAAAATGAAACACATGGCAAAAT
CAAGAACGTGATTGGTGAAGGTGGCATAAGCTCATCTGCTGTAATGGTGTGCTGGTGAATGCTGTGTACTTCAAAG
CAAGTGGCAATCAGCCTTCACCAAGAGCGAAACCATAAATTGCCATTTCAAATCTCCCAAGTGCTCTGGGAAGGC
AGTCGCCATGATGCATCAGGAACGGAAGTTCAATTTGTCTGTTATTGAGGACCCATCAATGAAGATTCTTGAGCT
CAGATACAATGGTGGCATAAACATGTACGTTCTGCTGCCTGAGAATGACCTCTCTGAAATTGAAAACAACTGAC
CTTTCAGAATCTAATGGAATGGACCAATCCAAGGCGAATGACCTCTAAGTATGTTGAGGTATTTTTCTCCTCAGTI
CAAGATAGAGAAGAATTATGAAATGAAACAATATTTGAGAGCCCTAGGGCTGAAAGATATCTTTGATGAATCCAA
AGCAGATCTCTCTGGGATTGCTTCGGGGGGTCTGCTGTATATATCAAGGATGATGCACAAATCTTACATAGAGGT
CACTGAGGAGGGCACCGAGGCTACTGCTGCCACAGGAAGTAATATTGTAGAAAAGCAACTCCCTCAGTCCACGCT
GTTTAGAGCTGACCACCCATTCTTATTGTTATCAGGAAGGATGACATCATCTTATTTCAGTGGCAAAGTTCTTG
CCCTTGAAAAATCCAATTGGTTTCTGTTATAGCAGTCCCCACAACATCAAAGRACCACCACAAGTCAATAGATYTG
RGTTTAATTGGAAAAATGTGGTGTTCCTTTGAGTTTATTTCTTCCTAACATTGGTCAGCAGATGACACTGGTGA
CTTGACCCTTCCTAGACACCTGGTTGATTGTCCTGATCCCTGCTCTTAGCATTCTACCACCATGTGTCTCACCCA
TTTCTAATTTCAATTGTCTTTCTTCCACGCTCATTTCTATCATTCTCCCCATGACCCGTCTGGAAATTATGGAG
RGTGCTCAACTGGTAAGGAGAACGTAGAAGTAGCCCTAGGGATCCTTTTTGAACTCTACAGTTATCGCAGATAT
TCTAGCTTCATTGTAAGCAATCTAGGAAATAAGCCCTGCTGCTTTCTAGAAATAAGTGTGAAGGATAAATTTCT
TTGTTGACCTATGAAGATTTTAGAGTTTACCTTCATATGTTTGATTTTAAATCAGTGTATAATCTAGATGGTAAA
AAATGTGAAATTGGGATTAGGGACCTACCAAAATATTTCAATTAATGCTTTCAATTGACAAATTTTGGCCTTTCTT
TGATAAGACAATATGTACATGTTTTTCAAATATTAAAGATCTTTTAACTGTTGGCAGTTGTTATCTACAGAATC
ATATTTTCATATGCTGTGTAGTTTATAAGTTTTTCTCTATTTATCAGAATAAAGAAATACAACATACCTGTAAA

718/2777
FIGURE 634

MASLAAANAFCFNLFREDDNQGNVFFSSLSLFAALALVRLGAQDDSLSQIDKLLHVNTASGYGNSSNSQSG
LQSQLKRVFSDINASHKDYDLSIVNGLFAEKVYGFHKDYIECAEKLYDAKVERVDFTNHLEDTRRNINKWVENET
HGKIKNVIGEGGISSAVMVLVNAVYFKGKWQSAFTKSETINCHFKSPKCSGKAVAMMHQERKFNLVIEDPSMK
ILELRYNGGINMYVLLPENDLSEIENKLTQNLMEWTNPRRMTSKYVEVFFPQFKIEKNYEMKQYLRALGLKDIF
DESKADLSGIASGGRLYISRMHKSYLEVTEEGTEATAATGSNIVEKQLPQSTLFRADHPFLFVIRKDDIILFSG
KVSCP

719/2777
FIGURE 635A

GGAAGCCCGAGGCAGATGCCACGCAATTCTGGAGCTGGATACGGCTGCCACACGGGGACCCAGCATGCTGGAC
AGCAGAGAGACCCACAGGAGAGCCGGCAGGACATGATTGTGAGGACCACCCAAGAAAAATTGAAAACAGCTCA
CTGACTGACAGGCAGCCACTCTCCAAAGAGTCCCTGAACCATGCTCTCGAGCTCTCAGTGCCAGAGAAGGTGAAT
AATGCCCAGTGGGATGCTCCAGAGGAGGCGCTGTGGACGACTCGGGCCGATGGGCGGGTGC GCCTGCGCATAGAC
CCCAGCTGCCACAGCTTCCCTACACTGTGCATCGGATGTTCTACGAGGCCCTGGATAAGTATGGGGACCTCATC
GCTTTGGGCTTCAAGCGCCAGGACAAGTGGGAACACATCTCCTACTCCCAATACTACCTGCTCGCCCGCAGAGCC
GCCAAGGGCTTCTGAAGCTCGGCCTGAAGCAGGCCACAGTGTGGCCATCCTCGGCTTCAACTCCCCGGAGTGG
TTCTTCTCGGCAGTGGGCACAGTATTTGCAGGTGGCATCGTCACTGGCATCTACACCACAGCTCCCCAGAGGCC
TGCCAGTACATCGCTTATGACTGCTGCGCCAATGTCATCATGGTCGACACGCAGAAGCAGCTGGAAAAGATCCTG
AAGATCTGGAACAGTTGCCACATCTAAAGGCAGTCGTGATATATAAAGAACCTCCTCCAAACAAGATGGCCAAT
GTGTACACGATGGAGGAATTCATGGAGCTGGGGAATGAAGTGCCTGAGGAAGCCCTGGACGCCATCATTGACACC
CAGCAGCCCCAACAGTGTGTGTCTAGTCTACACTTCCGGCACCCTGGGAACCCCAAGGGCGTGATGCTGAGT
CAAGACAATATCACGTGGACGGCACGGTACGGCAGCCAGGCCGGTGACATCCGGCCGGCAGAAAGTCCAGCAGGAG
GTGGTAGTCAGCTACCTGCCCCCTCAGCCATATTGCCGCCCAGATCTACGACCTGTGGACAGGCATCCAGTGGGGG
GCCCAGGTTTGCTTTGCCGAACCCGACGCCCTGAAGGGGAGCCTGGTGAACACGCTGCGGGGAGGTGGAGCCCCACA
TCACACATGGGGGTGCCCCGGGTATGGGAGAAGATCATGGAGCGCATCCAGGAGGTGGCGGCTCAGTCTGGCTTC
ATCCGGCGAAAGATGCTGCTGTGGGCCATGTCCGTGACCTTGGAGCAGAACCTCACCTGCCCCGGCAGCGACCTG
AAGCCCTTCACAACCAGACTGGCAGATTACCTGGTGTCTAGCCAAGGTTCCGCCAGGCACTGGGATTTGCCAAGTGT
CAAAAGAACTTCTATGGAGCGGCCCCCATGATGGCAGAGACACAGCACTTCTTCTGGGTCTCAACATCCGCTTG
TATGCGGGCTACGGCCTCAGTGAGACCTCAGGCCCCCACTTCATGTCCAGTCCCTACAACCTACCGGCTGTACAGC
TCAGGCAAGTTGGTGCCCGGCTGTCCGGTGAAGCTGGTGAACCAGGACGCAGAGGGCATTGGCGAGATCTGCCTG
TGGGGCCGCACCATATTTCATGGGCTACCTGAACATGGAGGACAAGACTTGTGAGGCCATCGACGAGGAAGGCTGG
CTGCACACGGGTGATGCTGGCCGCTGGACGCCGATGGCTTCCTCTACATCACTGGGCGCCTCAAAGAATTAATC
ATCACAGCTGGTGGGGAGAATGTGCCCCCTGTGCCATCGAGGAGGCCGTGAAGATGGAGCTGCCCCATCATCAGC
AACGCCATGCTCATTGGGGACCAGAGGAAGTTCTGTCCATGCTGCTCACCTTGAAGTGCACCTCTGGACCCAGAC
ACCTCTGACCAGACTGATAATCTGACTGAACAAGCTGTGGAGTTCTGCCAGAGGGTGGGCAGCAGAGCCACCACA
GTGTCCGAGATCATAGAGAAGAAGGATGAGGCCGTGTACCAGGCCATCGAAGAGGGGATCCGGAGGGTCAACATG
AACGCGGCGGCCCGGCCCTACCACATCCAGAAGTGGGCCATTCTCGAGAGAGACTTCTCCATTTCCGGGTGGAGAG
TTGGGTCCCACGATGAAACTGAAACGGCTCACAGTTTTTGAGAAGTACAAAGGTATCATTGACTCCTTTTACCAA
GAGCAAAAAATGTAATCAGGGCCTATGCCTGCAGTTTTCTATAGAATAGAGGGCAGGCGTTCAGGCTCTTCCTG
AGCCCCAGGTCTCTTCAGTCTGGGCACAGGCATTTCTGCCAAGTCTGTTAGATCTCCAGGTACAGGGCACAGCACT
GGCTCTACATTTACCAGGTCTTACGCCAACAATAGCTGACAATTCCAAGAAGCTTCAGTGTGGGTAGTTTTAAT
TCAGTTTAAGTATTGCTTTTTTGTTCAGGTGACAAATGAGATCAGCTCTCCTTCCAGAACGAAAGGGCTGATAATT
TTTGGCCTTAGTTCCAGGTAGATTAAAAAGCTGCTAGCTCACATACAGGACAGCCAGCAGTAGGCTGTGGAGCGG
GTAGGAGAGAGATGGCTGATACTGCTCACGTGCGCTGCAGGAAAAGCAATCAGTCACAACCTACCTAGCGACCTG
ACTTACTCTGGAATCTTGGCGGGCATCGCCGACCCTATTATTCCATTACCAGGCACTCCGCCACCCACATGCCAA
CTGACTTGATGCTTAATAAACTGCTGCTGCCTGTTTGATTCTATTTAATGTATAATTTGAATATTAAACCTTTT
AACAGAAGTGTCAACAAGGACCTGATTTTTTTTGTCAATTGAGCAGGTGGGACCAGTGCAGAGAGTAGTGGGCAT
TTAACTCACAGGACTGTGCACAGCGGGCATGCGAGTGACCATTAGTGCCCTGGAATAAAACAAAGGTGCAGGATGG
GGTCAAGTGGCGCATTCTCATAAAAGCAGCCAGCTCTACGTTAGCCTGTGCCACCAGACACCCCACTTCCATT
CTGAATACGGGAAGCAGCCATTCTCAGTAGCAAGCTGAGCCAAAATGACCGAAGGCATCTGAACAGGAAAACAGGT
AGAGAAAGCAAACATCTCAGTTTTGGAATCTTTTATTACTTTGAACCCAAGAGCCACTGATAACTGGCACAATCC
AATGAAACAGAGGAAGCAGCAGCTTAAACAAAGGAAAATACATTTAAGATTATAAGTCTGGGGGGGCGGTTACAA
GCTTAAAAAGTGACCCAGACAGGGATATCATTGCTAAAAAATAAATCCCTTGTGACCTGGGTACATTTTGC
AAAGCCACAGGTTTGCAATGTTACACAAGGGCCAAAGGAGGCCATGAGTTGTCTTTGGTTGTGGGGACAGAGGGT
AÄCTGTTTCATGAAAATAGTGAGTGTCTGAAGATTAAGAAAATCATGCTGCAGCAGAGGAGAAGGGAGAGGAAGAC
AGGAAGGAAAAGGAGATGCCTGAGGGTCAAAAGCTGAGCCCAAGCCTAAGCCCAAGCTCAAGCTCAAGCCCCAGC
ATGGCATAATTTTGTGAATTAATCAGGCTGAGTTGCCTCCAGTCTTTGGAATGTCATCTTATACTGGTACTGCT

720/2777
FIGURE 635B

GAGGCAGAGGGCAGTAATTGGTGCTTTGGGATAGGAGAAAGGGGCAGTTGCTGAAATACAAAATTAATAGCATCCC
AAGTTCCTCAATTGCAGCCAAAATACATGTGTTTCGGGCCCTTTTCGGCAGTATCGCCCCCAGAACTACCTGCTGTAG
TGTGGTCCATTCCCAGACAGCAACATGCAAGAATAAGTTTACAATACACTTAGCCCTTCTGGCTTCAGATCAGGG
GCTCAGAGGCTGTGACAACTCATGATGCTGAAAATGTATCCAGTGAAAATGAAGTACTAGCTCTCTGCTTCATTA
AAAGCTCTTGGAAGAATATTAAATCTCAAGACAACAAAATAAATTGAACACACAATACATTTGTGTCTTTGTATC
CAATATATTACCTTTGTCTTATTAAACAAAAATTATATCTCTCATTATATATTTCTTGGATCTGAAGTTTTTATTTC
ACACTCAGTAATTTCTGTAAAGGACAAATCTGTCTCTATTTTCCATATCATTTAGAAATATACCACATTCACTCT
TTTTGATGTGAACCTTTCCAGGAAAATTCTCTTGTGCCCATTTAGTTTTAGAAAGAGTGTCAATTTGTGCTATTAT
GTCAATATCCTGTTTTATTTCCATTATGTTTTTCAAAAACCGAAGAAAATAAGGTTTTTCTTAAAAAGTTAGACA
TTTTCTCTTGTTAATTTCTGTATCCTGTTATTTACAGCTGAAGAGAACTATTTTAACTTAAGTGTAATGTTT
AGAATAGCAAATGATACAGTCCACTCAGAGTTTACAAAAAAACATTTACCAGGTAGACACTTAATAAATAAAAC
AAGCACTTGGAAGTTCTTTGAAAACAGACCTAGGGACATCCACCTGCATCTTTTGCACAGATTTTGTAAAGA
AAAGGCCAGATCTAAAAATGTACTGTCAAGAAACAAGCAACCAATGCATACATACGTAGGTATTCTAAACAGAG
GTTTATGTGGTGTCCATTTAGAGTGACTGATGTAAATGCCAGTTGTAGAAGTGTTAATCTAAATCTTTTACTCGG
CGACAGATTTCTCTGTGAAGTCTGAGCATTTTGCATTGCCCTCCCAAATCTTTTGTCAAGCTCTGAGAAAAGGAA
AAAGCAAAAATAAAAGATGTATCCGCAAACTAACTAAACCAAGGAGATTTTAAAGCCCTCAGTGAGATGCCACC
TGGGCAAGTTACTCGGCTGCTCTTTTCAATTTAGTTTCTCATTTCAAAGTGAGGAACCACTCCACCACCATCTACCC
AGCCCAGGAGGATCGGGATCCAATCTCATAGTGATACAAACAGCACTCTGCAAGAATAAGGTGCTCTTGATGCA
AAGGGAGGCAGGGAGCTTTACCAAAATTTTCCCTTTGTTTACACAATAGACCCTAACCCAGATTAGTTGGTCATG
GATATTTAAATAAAAGCGAATCTAAATAAGAAGTTTAAAAATCCTTGGGAAATATGTCTCAGGAATAGACCTGAG
ACATATTTTGATCTATTTTTGTTTTTTATTATTATTTTTTTTTTTAGATGGAGTCTCACTCTGTTGCCAGGCTGGA
GTGCAAGTGGCACGATCCCAGCTCACCACAACCTCTGCCTCCTGGGTTCAAGCGATTCTCCTGCCTCAGCGTCCTG
AATAGCTGGAATTACAAGTGCATGCCACCATAACCAACTAATTTTTTGTATCTGATCTATTTTTTGGAGGCTGGGAC
ACAAATACGAAAGAAATATTTAAATCATTAACTCTTTTTTTTTTTTTTAAAGAGATGGGGTCTCACTATGTGGCCCA
GGCTGGTCTTTGAACTCAGAGGCTAAGGTGATCCTCCTGCCTCAGCCTATAGCTGCAACTACAGGCATGCACCACC
ACACCTGCCTAAATCATTAACTCTTAAACCTCCCTCTTTAGGAAAGAAAGCCTCCCATACAACTGATCTGTTCTA
CCAGCTTATCCTTTCTTTTCTGCATACAGACCCCAATATATTTAATTCTCTTTATCTTTCCATCCTACACAATAA
AAGGGCCCACTATGTAATTCAGGCACCTCTCTACTGGGCTGTAGATTATAACTTCCCAATATAACTTTAAAGAA
TAAGAAAATCATATGACCTCCAATGTGACTATCAGGCTGTTAAAAACAAGCCTGAATTTCTTGTATTTTGGCCAC
ACGATATAATTTCAAATTACAGAATTTTTTTTAAAGAAGGGACCAACTTTGAAGATATTACGCTAAGTGAAATAA
GCCAGACTCAAAGGACAAATACTGTATGATTCCACTTACATGAGGTACCTAGAGTAGTCAAATTCATAGAGACAG
GAAGCAGAATGGCAGGTGTCAGAGGATGGGAGGGGGAAGGGAAAGTTACTGTTTAAACGGGTGCAGAGTCTCAGTT
TGAGAAAATGAACTGGTCTGGAGATGACTGATGGTGTGTTACATTACAATGTGAATGTACTTAACATTATTG
AACTGTATACCTAAATACGGCTAAAATGGCAAATTTTATGTTATGCATATTTTTCACAATTTTGTAAAAAGGA
CCTCAAATTAGG

721/2777
FIGURE 636

GAATCACGACCCCTCCCTGCCATGTATCCGCAGGGCAGACATCCGGCTCCCCATCAACCCGGGCAGCCGGGATTT
AAATTCACGGTGGCTGAGTCTTGTGACAGGATCAAAGACGAATTCCAGTTCTTGCAAGCTCAGTATCACAGCCTC
AAAGTGGAGTACGACAAGCTGGCAAACGAGAAGACGGAGATGCAGCGCCATTATGTGATGTACTATGAGATGTCC
TATGGCTTGAACATTGAAATGCACAAGCAGACAGAGATTGCGAAGAGACTGAACACAATTTTAGCACAGATCATG
CCTTTCCTGTACAAAGAGCACCAGCAGCAGGTGGCGCAGGCAGTGGAGCGCGCCAAGCAGGTACCATGACGGAG
CTGAACGCCATCATCGGGCAGCAGCAGCTCCAGGCGCAGCACCTCTCCCATGCCACACACGGCCCCCGGTCCAG
TTGCCACCCACCCGTCAGGTCTCCAGCCTCCAGGAATCCCCCAGTGACAGGGAGCAGCTCCGGGCTGCTGGCA
CTGGGCGCCCTGGGCAGCCAGGCCCATCTGACGGTGAAGGATGAGAAGAACCACCATGAACTCGATCACAGAGAG
AGAGAATCCAGTGCGAATAACTCTGTGTACCCCTCGGAAAGCCTCCGGGGCCAGTGAGAAGCACCGGGGCTCTGCG
GACTACAGCATGGAAGCCAAGAAGCGGAAGGTGGAGGAGAAGGACAGCTTGAGCCGATACGACAGTGATGGAGAC
AAGAGTGATGATCTGGTGGTGGATGTTTCCAATGAGGACCCCGCAACGCCCCGGGTGAGCCCGGCACACTCCCT
CCTGAAAATGGGCTGGACAAGGCCCGTAGCCTGAAAAAAGATGCCCCACCAGCCCTGCCTCGGTGGCCTCTTCC
AGTAGCACACCTTCTCCAAGAÇCAAAGACCTTGGTCATAACGACAAATCCTCCACCCCTGGGCTCAAGTCCAAC
ACACCAACCCCAAGGAACGACGCCCAACTCCAGGCACCAGCACGACCCACAGGGCTCAGGTGATGCCGGGTAA
CCTCCGGGCATGGACCCGATAGGTATAATGGCCTCGGCTCTGCGCACGCCCATCTCCATCACCAGCTCCTATGCG
GCGCCCTTCGCCATGATGAGCCACCATGAGATGAACGGCTCCCTCACCAGTCTTGCGCCTACGCCGGCCTCCAC
AACATCCCACCCAGATGAGCGCCGCGCCGCTGCTGCAGCCGCTGCCTATGGCCGATCGCCAATGGTGAGCTTT
GGAGCTGTTGGTTTTGACCCTCACCCCCGATGCGGGCCACAGGCCTCCCCCTCAAGCCTGGCCTCCATTCTGGA
GGAAAACCAGCGTACTCATTCCATGTGAGTGCTGATGGGCAGATGCAGCCCGTGCCCTTCCCCACGACGCCCTG
GCAGGCCCCGGCATCCCAGGCACGCCCCGGCAGATCAACACACTCAGCCACGGGGGGGTGGTGTGTGCCGTGACC
ATCAGCAACCCAGCAGGCACGTCTACACAGGTGGCAAGGGCTGCGTGAAGATCTGGGACATCAGCCAGCCAGGC
AGCAAGAGCCCCATCTCCCAGCTGGACTGCCTGAACAGGGACAATTACATGCGCTCCTGCAAGCTGCACCCTGAT
GGGCGCACGCTCATCGTGGGCGGCGAGGGCAGCACGCTCACCATCTGGGACCTGGCCTCGCCACGCCCCGCATC
AAGGCCGAGCTGACGTCTCGGCTCCCGCCTGTTATGCCCTGGCCATTAGCCCTGACGCCAAAGTCTGCTTCTCC
TGCTGCAGCGATGGGAACATTGCTGTCTGGGACCTGCACAACCAGACCCTGGTCAGGCAGTTCCAGGGCCACACA
GATGGGGCCAGCTGCATAGACATCTCCCATGATGGCACCAAACTGTGGACAGGGGGCCTGGACAACACGGTGC
TCCTGGGACCTGCGGGAGGGCCGACAGCTACAGCAGCATGACTTCACTTCCCAGATCTTCTCGCTGGGCTACTGC
CCCCTGGGGAGTGGCTGGCTGTGGGCATGGAGAGCAGCAACGTGGAGGTGCTGCACCACACCAAGCCTCACAA
TACCAGCTGCACCTGCACGAGAGCTGCGTGCTCTCCCTCAAGTTCGCTTACTGCGGCAAGTGGTTTCGTGAGCACT
GGGAAAGATAACCTTCTCAACGCCTGGAGGACGCTTATGGAGCCAGCATATCCAGTCTAAAGAATCCTCGTCT
GTCTTGAGTTGTGACATTTTCAGCGGATGACAAATACATTGTAACAGGCTCTGGTGACAAGAAGGCCACAGTTTAT
GAGGTCATCTACTTAAACAAGAACTCCAGCAGG

722/2777
FIGURE 637

MYPQGRHPAPHQPGQPGFKFTVAESCDRIKDEFQFLQAQYHSLKVEYDKLANEKTQMORHYVMYYEMSYGLNIEM
HKQTEIAKRLNTILAQIMPFLSQEHQQQVAQAVERAQVMTMELNAIIGQQQLQAQHLSHATHGPPVQLPPHPSG
LQPPGIPPVTGSSSSGLLALGALGSQAHLTVKDEKNHHELDHRRERESSANNSVSPSESLRASEKHRSADYSMEAK
KRKVEEKDSLRYDSGDKSDDLVDVSNEDPATPRVSPAHSPPENGLDKARSLKKDAPTSPASVASSSSTPSSK
TKDLGHNDKSSTPGLKSNTPTPRNDAPTPTGTSTTPGLRSMGKPPGMDPIGIMASALRTPISITSSYAAPFAMMS
HHEMNGLTSPGAYAGLHNIPPQMSAAAAAAAAAYGRSPMVSGAVGFDPHPPMRATGLPSSLASIPGGKPAYSF
HVSADGQMOPVPFFPHDALAGPGIPRHARQINTLSHGGVVCAVTISNPSRHVYTGKGKCVKIWDISQPGSKSPISQ
LDCLNRDNYMRCKLHPDGRTLIVGGEGSTLTIWDLASPTPRIKAELTSSAPACYALAI SPDAKVCFSCCSDGNI
AVWDLHNQTLVRQFQGHTDGASCIDISHDGTKLWTGGLDNTVRSWDLREGRQLQQHDFTSQIFSLGYCPTGEWLA
VGMESSNVEVLHHTKPHKYQLHLHESCVLSLKFA YCGKWFVSTGKDNLLNAWRTPYGASISQSKESSSVLSCDIS
ADDKYIVTGSGDKKATVYEVY

723/2777
FIGURE 638

CTTCTCTGGGACACATTGCCTTCTGTTTTCTCCAGCATGCGCTTGCTCCAGCTCCTGTTTCAGGGCCAGCCCTGCC
ACCCTGCTCCTGGTTCTCTGCCTGCAGTTGGGGGCCAACAAGCTCAGGACAACACTCGGAAGATCATAATAAAG
AATTTTGACATTCCCAAGTCAGTACGTCCAAATGACGAAGTCACTGCAGTGCTTGCAGTTCAAACAGAATTGAAA
GAATGCATGGTGGTTAAACTTACCTCATTAGCAGCATCCCTCTACAAGGTGCATTTAACTATAAGTATACTGCC
TGCCTATGTGACGACAATCCAAAAACCTTCTACTGGGACTTTTACACCAACAGAACTGTGCAAATTGCAGCCGTC
GTTGATGTTATTTCGGGAATTAGGCATCTGCCCTGATGATGCTGCTGTAATCCCCATCAAAAACAACCGGTTTTAT
ACTATTGAAATCCTAAAGGTAGAATTAATGGAAGCCCTGTCTGTTTGCCACACCCAGGTGATTTCCTCTAAAGAAA
CTTGGCTGGAATTTCTGCTGTGGTCTATAAAATAAACTTCTTAACATGCTT

724/2777
FIGURE 639

MRLQLLFRASPATLLVLCLQLGANKAQDNTRKII IKNFDIPKSVRPNDEVTAVLAVQTELKECMVVKTYLISS
IPLQGAFNYKYTACLCDDNPKTFYWDFYTNRTVQIAAVVDVIRELGICPDAAVPIKNNRFYTIEILKVE

/

725/2777
FIGURE 640

GGCACGAGGCCTGAGCTCAGGAGTTTGAGACCAGCCTGTCTCTACTAACAATATAAAAAATTAGCTGGGAGTCACG
GTGGGCGCCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATTGCTTGAACCCAGGAGACAGAGGTTGTA
GTGAGCTGAGATCGCACCCTGCACTCTAGCCTTGGAACAGTGCAAGACTGTCTCAAAAACAGCAACAGAGAGC
AGGACGTGAGACTTCTACCTGCTCACTCAGAATCATTTCTGCACCAACCATGGCCACGTTTGTGGAGCTCAGTAC
CAAAGCCAAGATGCCCATTGTGGGCCTGGGCACTTGAAGTCTCCTCTTGGCAAAGTGAAAGAAGCAGTGAAGGT
GGCCATTGATGCAGGATATCGGCACATTGACTGTGCCTATGTCTATCAGAATGAACATGAAGTGGGGGAAGCCAT
CCAAGAGAAGATCCAAGAGAAGGCTGTGAAGCGGGAGGACCTGTTTCATCGTCAGCAAGTTGTGGCCCACTTTCTT
TGAGAGACCCCTTGTGAGGAAAGCCTTTGAGAAGACCTCAAGGACCTGAAGCTGAGCTATCTGGACGTCTATCT
TATTCCTGAGCCACAGGGATTCAAGTCTGGGGATGACCTTTTCCCCAAAGATGATAAAGGTAATGCCATCGGTGG
AAAAGCAACGTTCTTGGATGCCTGGGAGGCCATGGAGGAGCTGGTGGATGAGGGGCTGGTGAAAGCCCTTGGGGT
CTCCAATTTACGCCACTTCCAGATCGAGAAGCTCTTGAACAAACCTGGACTGAAATATAAACCAGTGACTAACCA
GGTTGAGTGTACCCATACCTCACACAGGAGAACTGATCCAGTACTGCCACTCCAAGGGCATCACCGTTACGGC
CTACAGCCCCCTGGGCTCTCCGGATAGACCTTGGGCCAAGCCAGAAGACCCTTCCCTGCTGGAGGATCCCAAGAT
TAAGGAGATTGCTGCAAAGCACAAAAAACCGCAGCCCAGGTTCTGATCCGTTTCCATATCCAGAGGAATGTGAT
TGTCATCCCCAAGTCTGTGACACCAGCACGCATTGTTGAGAACATTCAGGTCTTTGACTTTAAATTGAGTGATGA
GGAGATGGCAACCATACTCAGCTTCAACAGAACTGGAGGGCCTGTAACGTGTTGCAATCCTCTCATTGGAAGA
CTATCCCTTCGATGCAGAATATTGAGGTTGAATCTCCTGGTGAGATTATACAGGAGATTCTCTTTCTTCGCTGAA
GTGTGACTACCTCCACTCATGTCCATTTTAGCCAAGCTTATTTAAGATCACAGTGAACCTAGTCCTGTTATAGA
CGAGAATCGAGGTGCTGTTTTAGACATTTATTTCTGTATGTTCAACTAGGATCAGAATATCACAGAAAAGCATGG
CTTGAATAAGGAAATGACAATTTTTTCCACTTATCTGATCAGAACAAATGTTTATTAAGCATCAGAACTCTGCC
AACACTGAGGATGTAAAGATCAATAAAAAAATAATAATCATAAAAAAAAAAAAAAAAAAAAA

726/2777
FIGURE 641

MATFVELSTKAKMPIVGLGTWKSPLGKVKEAVKVAIDAGYRHIDCAYVYQNEHEVGEAIQEKIQEKAVKREDLF I
VSKLWPTFFERPLVRKA FEKTLKDLKLSYLDVYLIHWPQGFKSGDDLFPKDDKGNAIGGKATFLDAWEAMEELVD
EGLVKALGVS NFSHFQIEKLLNKPGLKYKPV TNQVECHPYLTQEKLIQYCHSKGITVTAYSPLGSPDRPWAKPED
PSLLEDPKIKEIAAKHKKTAAQVLIRFHIQRNVIVIPKSVTPARIVENIQVFDFKLSDEEMATILSFNRNWRACN
VLQSSHLEDYPFDAEY

727/2777
FIGURE 642

GGTCGACGACGTGGCAGCCGGGATGCACTAGGCCAAAGCCAGCTGGGCTCCTGAGTCCGGTGGGTACTTGGAGAAC
TTACTACGTCTAGCTGGAGGATTGTAAATGTACCAATCAGCATGCTGTGTCTAGCTCAAGAACTCAAGCTCCATG
AGGAGATGTTTCATTGTGCGAGAGCAGTCATGATGGCCTGCACTCCACACAATGCAACAGAGTGAAAGAGCAGGTT
CTGCTTCTTTGGTGTAAGCTTCTGAAGCTTCCCTAAGAACTTCACATCAGGTGATGGATAGGAGCAACCCTGTAAAA
CCAGCCTTAGACTATTTTTTAAACAGGCTGGTGAATTACCAGATCTCCGTCAAGTGCAGTAACCAGTTCAAGTTG
GAAGTGTGTCTTTTGAATGCAGAAAACAAAGTCGTGGACAACCAGGCTGGGACCCAGGGCCAGCTGAAGGTGCTG
GGTGCCAACTCTGGTGGCCGTACCTGATGCACGAACACCCCGCTACCTCTACTCGTGGGAGGATGGTGATTGC
TCACACCAAAGCCTTGGACCCCTCCAGCCTGTGACCTTTGTGACCAACTCCACCTACGCAGCAGACAAGGGGGC
TCTGTATGTGGATGTGATCCGTGTGAACAGCTACTACTCTTGGTATCGCAACTACGGGCACCTGGAGTTGATTCA
GCTGCAGCTGGCCGCCAGTTTGAGAATTGGTGTAAAGACATCACAATCCCATTATTTCAGAGCGCGTATGGAGTGG
AAACGCTTGTAGGGTTTACCAGTCTTTCCAGGGAACCTCCGATGAAGTGTTCACAAATAATGAGCGAGTGAACC
AAGAAGAGGATGACATTAGATCCAGGAGATACAACAGAGGAGATAATCTCCAGGATGCCTGTGAAGAAAGATCCC
TGGATCCCAGGATGATTATAGGACAAGTTGTTTCATAATCCAGCAGGCCAGAAGACTTCCAGGGAACTCATTCAA
GGAGGTGAAAATGATGGATGACTCCTCCAAGATGAAAATGGACCAGCCGCAGTGCTCAGCCTGTAATACCAGCA
CTTTGGGAGGCTGAGGCAGGCGGATCACTTGAGGTCAGGAGTTTGAACTAGCCTGGCCAACGTGGCAAACTCC
ATCTCTATTAAAAATACAAAATTAGCCAGGCATAGTGGTGCATGCCTGTAGTCCCAGCTACTTGGGATGCCGAG
GCAGGAAGAATTGCTTGAACCTGGGAGGCAGAGTCTGCAGTGAGCCGAGATCATGCCACTGCACTCCAGCCTGGG
TGACAGAGCCACTCCGTCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

728/2777
FIGURE 643

MDRSNPVKPALDYFLNRLVNYQISVKCSNQFKLEVCLLNAENKVVDNQAGTQGQLKVLGANLWWPYLMHEHPAYL
YSWEDGDCSHQSLGPLPACDLCDQLHLRSRQGGSVCGCDPCEQLLLLVSQLRAPGVDSAAAGRPV

729/2777
FIGURE 644

GCGGCCGCAAGCTCGGCACTCACGGCTCTGAGGGCTCCGACGGCACTGACGGCCATGGCGGTTCGAACCTCCCG
CTGGCGCTGGGCCTGGCCCTGGTCGCATTCTGCCTCCTGGCGCTGCCACGCGACGCCCGGGCCCGCCGAGGAG
CGCATGGTCGGAGAACTCCGGGACCTGTCGCCCCGACGACCCGCAGGTGCAGAAGGCGGCGCAGGCGGCCGTGGCC
AGCTACAACATGGGCAGCAACAGCATCTACTACTTCCGAGACACGCACATCATCAAGGCGCAGAGCCAGCTGGTG
GCCGGCATCAAGTACTTCCTGACGATGGAGATGGGGAGCACAGACTGCCGCAAGACCAGGGTCACTGGAGACCAC
GTCGACCTCACCACCTTGCCCCCTGGCAGCAGGGGCGCAGCAGGAGAAGCTGCGCTGTGACTTTGAGGTCCTTG
GTTCCCTGGCAGAACTCCTCTCAGCTCCTAAAGCACAACTGTGTGCAGATGTGATAAGTCCCCGAGGGCGAAGGC
CATTGGGTTTGGGGCCATGGTGGAGGGCACTTCAGGTCCGTGGGCCGTATCTGTCACAATAAATGGCCAGTGCTG
CTTCTTGCAAAAAAAAAAAAAAAAAAAAA

730/2777
FIGURE 645

MARSNLPLALGLALVAFCLLALPRDARARPQERMVGELRDLSPDDPQVQKAAQAAVASYNMGNSNIYYFRDTHII
KAQSQLVAGIKYFLTMEMGSTDCRKTRVTGDHVDLTTCP LAAGAQQEKLRCDFEVLVVPWQNSSQLLKHNCVQM

731/2777
FIGURE 646

CGCTGCCACCATGGACAGTAGCACCTGGAGCCCCAAGACCACCGCGGTACCCGGCCTGTTGAGACCCACGAGCT
CATTGCAATGCAGCCGATATCTCCATCATCGTTATCTACTTCGTGGTAGTGATGGCCGTCGGACTGTGGGCTAT
GTTTTCCACCAATCGTGGGACTGTTGGAGGCTTCTTCCTGGCAGGCCGAAGTATGGTGTGGTGGCCGATTGGAGC
CTCCCTCTTTGCTAGTAACATTGGAAGTGCCACTTTGTGGGGCTGGCCGGGACTGGGGCAGCTTCAGGCATCGC
CATTGGAGGCTTTGAATGGAATGCCCTGGTTTTGTGGTGTGTGCTGGGCTGGCTGTTTGTCCCCATCTATATTAA
GGCTGGGGTGGTGACAATGCCAGAGTACCTGAGGAAGCGGTTTGGAGGCCAGCGGATCCAGGTCTACCTTTCCCT
TCTGTCCCTGCTGCTCTACATTTTACCAAGATCTCGGCAGACATCTTCTCGGGGGCCATATTCAATCTGGC
CTTAGGCCTGAATCTGTATTTAGCCATCTTTCTCTTATTGGCAATCACTGCCCTTTACACAATTACAGGGGGCCT
GGCGGCGGTGATTTACACGGACACCTTGACAGACGGTGATCATGCTGGTGGGGTCTTTAATCTGACTGGGTTTGC
TTTTACGAAGTGGGAGGCTATGACGCCTTCATGGAAAAGTACATGAAAGCCATTCCAACCATAGTGTCTGATGG
CAACACCACCTTTAGGAAAAATGCTACACTCCAAGGGCCGACTCCTTCCACATCTTCCGAGATCCCCCTCACGGG
AGACCTCCCATGGCCTGGGTTTCATCTTTGGGATGTCCATCCTTACCTTGTGGTACTGGTGCACAGATCAGGTCAT
TGTGCAGCGCTGCCTCTCAGCCAAGAATATGTCTCACGTGAAGGGTGGCTGCATCCTGTGTGGGTATCTAAAGCT
GATGCCCATGTTTCATCATGGTGATGCCAGGAATGATCAGCCGCATTCTGTACACAGAAAAAATTGCCTGTGTCTG
CCCTTCAGAATGTGAGAAATATTGCGGTACCAAGGTTGGCTGTACCAACATCGCCTATCCAACCTTAGTGGTGGA
GCTCATGCCAATGGACTGCGAGGCCTGATGCTATCAGTCATGCTGGCCTCCCTCATGAGCTCCCTGACCTCCAT
CTTCAACAGCGCCAGCACCTCTTCACCATGGACATCTACGCCAAGGTCCGCAAGAGAGCATCTGAGAAAGAGCT
CATGATTGCCGGAAGGTTGTTTATCCTGGTGCTGATTGGCATCAGCATCGCCTGGGTGCCCATTGTGCAGTCAGC
ACAAAGTGGGCAACTCTTCGATTACATCCAGTCCATCACCAGTTACTTGGGACCACCCATTGCGGCTGTCTTCCT
GCTTGCTATTTTCTGGAAGAGAGTCAATGAGCCAGGAGCCTTTTGGGGACTGATCCTAGGACTTCTGATTGGGAT
TTCACGTATGATTACTGAGTTTGCTTATGGAACCGGGAGCTGCATGGAGCCCAGCAACTGTCCCACGATTATCTG
TGGGGTGCATACTTGTACTTTGCCATTATCCTCTTCGCCATTTCTTTTCATCACCATCGTGGTCATCTCCCTCCT
CACCAAACCCATTCCGGATGTGCATCTCTACCGTCTGTGTTGGAGCCTGCGCAACAGCAAAGAGGAGCGTATTGA
CCTGGATGCGGAAGAGGAGAACATCCAAGAAGGCCCTAAGGAGACCATTGAAATAGAAAACACAAGTTCTCTGAGAA
GAAAAAGGAATCTTCAGGAGAGCCTATGACCTATTTTGTGGGCTAGAGCAGCACGGTGCACCCAAGATGACTGA
GGAAGAGGAGAAAGCCATGAAGATGAAGATGACGGACACCTCTGAGAAGCCTTTGTGGAGGACAGTGTTGAACGT
CAATGGCATCATCCTGGTGACCGTGGCTGTCTTTTGCCATGCATATTTTGCTGAGTCTACCTTTTGTGTGTA
TTTACCATGGCTGGACTCTTACTCACCTTCTTTAGTCTCGTCTGTGGTGTGGAAGGGAAATCAGCCAGTTGTA
AATTTTGCCAGGTGGATAAATGTGTACATGTGTAATTATAGGCTAGCTGGAAGAAAACCATTAGTTTGTCTGTTA
ATTTATGCATTTGAAGCCAGTGTGATACAGCCATCTGTACCTACTGGAGCCGAGAAAGGGAGTCCACTCAGTCAC
ATCCAGAAAAAGGCAGACTAAGAATCAGAAGCCATGTGATTGATGTCTGACGTGAGTCTGTCTCAGGTAGATTCC
GGGTGTCAGTGTGGTTTTATAATCCTTGAATATTGTTTTAGAAACTTTGGTCTCCCTGGTTCCTGCCACTTTTCCT
GTCCGTCTCTCTCCCCATTTTTTTTTTTAAAGAAAGCTGTTTTCCCTC

732/2777
FIGURE 647

MDSSTWSPKTTAVTRPVETHELIRNAADISIIVIFYFVVMAVGLWAMFSTNRGTVGGFFLAGRSMVWWPIGASLF
ASNIGSGHFVGLAGTGAASGIAIGGFENALVLVVVLGWLFVPIYIKAGVVTMPEYLRKRFGGQRIQVYLSLLSL
LLYIFTKISADIFSGAIFINLALGLNLYLAIFLLLAITALYTITGGLAAVIYTDTLQTVIMLVGSLILTGF AFHE
VGGYDAFMEKYMKAIPTIVSDGNTTFQEKCYTPRADSFHIFRDPLTGDLPWPGFIFGMSILTLWYWCTDQVIVQR
CLSAKNMSHVKGGCILCGYLKLMPMFIMVMPGMISRILYTEKIA CVVPSECEKYCGTKVGCTNIA YPTLVVELMP
NGLRGLMLSVMLASLMSSLTSIFNSASTLFTMDIYAKVRKRASEKELMIAGRLFILVLIGISIAWVPIVQSAQSG
QLFDYIQSITSYLGPPIAAVFLLAIFWKRVNEPGAFWGLILGLLIGISRMITEFAYGTGSCMEPSNCPTIICGVH
YLYFAIILFAISFITIVVISLLTKPIPDVHLYRLCWSLRNSKEERIDLDAEEENIQEGPKETIEIETQVPEKKKG
IFRRAYDLFCGLEQHGAPKMTTEEEKAMKMKMTDTSEKPLWRTVLNVNGIILVTVAVFCHAYFA

733/2777
FIGURE 648

ACAGACAGAAACGAGGGAAGAGAGAGAAATTGGGGACCCTGAAGAAAGGGGGCCAGCAGCAGGTAGGTGCCATCA
GGGACAAGAACAGCACCTCCCAGGGTGGGAGACCCCAGGCCTTTCTGGCAGCAGGTCTGGATGGAAAGTGGACAG
GAGGCTCACCCGTCTGCATCCCTGCTCCTGCCCTGCTCGGCTACAAAACCAAAGGGACAGCAGCTGACCACA
CCCCGGTAGCCACTCCTGCATAAAGCTCTCCCCCTCTGTGACCAGCTGAGGACCTCAGGCTGCAGCGGAGCCATG

CCCAGATACACGGTGACGTACGTGGGGAATGGCTGGCAGTGGCCCTGCCAGGACGCGCAGCTCACTGTGGGCTGG
CTGGGCGGGAGGCCGTGAGGCGCTATATCAAGAATAAGCCCCACAATGGTGGCTTCACCTCCGTGGATGACGCG
CACTTCCTTGTGCGCCGGTGCAAGGGCCTGGGCCTGCTGGACAACGAGGACCGGCTCGAGGTGGCCCTAGAGAAC
AACGAGTTTCGTGGAAGTGGTTATAGAGGGTGATGCCATGTCTCCTGACTTCATTCCATCTCAACCAGAAGGAGTT
TATCTATACAGCAAGTACCGGGAGCCTGAAAAGTACATCGAGTTAGATGGAGACCGTCTGACCACGGAGGATCTG
GTCAACTTGGGAAAGGGACGCTACAAAATAAAGCTCACCCCAACAGCTGAGAAGAGGGTGCAGAAATCCAGGGAG
GTCATAGATAGCATCATAAAGAGAGAAAACAGTTGTTTACGGTATTACTACAGGTTTTGGGAAATTTGCCAGAACT
GTAATTCCTATCAATAAGCTACAGGAGCTTCAGGTCAACTTAGTACGCTCACATTCTTCAGGTGTTGGGAAACCA
CTAAGTCCTGAGAGGTGTCGGATGCTCTTGGCTTTAAGGATCAATGTCTTAGCCAAAGGATACAGTGGCATTTC
CTGGAGACCCCTCAAACAAGTCATAGAAATGTTTAAATGCCCTCCTGCCTGCCCTATGTCCCAGAGAAAGGAACCGTT
GGTGCCAGTGGAGACCTTGCCCCACTCTCTCATCTTGCTCTTGGGCTAGTTGGAGAAGGGAAGATGTGGTCTCCG
AAGAGTGGCTGGGCTGATGCTAAATACGTGCTAGAAGCCCATGGATTGAAACCAGTTATTTTAAACCAAAAGAG
GGCCTGGCACTCATCAATGGGACGCAGATGATCACATCCCTGGGCTGTGAAGCTGTAGAGCGAGCCAGTGCTATT
GCACGGCAGGCTGACATTGTGGCAGCCCTGACCCTTGAGGTGCTGAAGGGCACCACCAAGCCTTTGACACTGAC
ATTCATGCTCTTCGACCTCACCGTGGGCAAATTGAAGTTGCTTTTCGGTTTCGGTCACTCTTGGACTCAGATCAC
CACCCATCAGAAATAGCAGAGAGTCAAGGTTCTGTGATCGCGTCCAGGATGCATACACCTTGCGCTGCTGTCCA
CAGGTCCATGGTGTGGTGAATGATACAATAGCATTGTGAAGAACATCATTACCACAGAACTGAACAGCGCAACA
GATAATCCTATGGTCTTTTGCCAATAGGGGAGAGACAGTTTCTGGAGGAACTTCCATGGTGAATACCCAGCCAAA
GCCCTAGACTACTTGGCCATTGGCATCCATGAACCTTGCTGCAATCAGTGAGAGAAGAATCGAGCGGCTCTGCAAT
CCCTCCCTCAGTGAGCTGCCTGCCTTCCTGGTGGCTGAAGGTGGTCTGAACCTCTGGGTTTCATGATAGCTCACTGC
ACGGCAGCAGCCCTTGTTTTCTGAGAAACAAGGCTCTGTGCCATCCCTCGTCTGTTGACTCCCTCTCCACCAGCGCA
GCCACGGAGGACCAGTCTCCATGGGAGGATGGGCAGCAAGGAAAGCCCTCAGGGTCATCGAGCATGTGGAGCAA
GTGCTGGCCATCGAGCTCCTTGACAGCTGCCAGGGCATAGAGTTTCTACGTCCCCTGAAAACAACCACTCCGCTG
GAGAAGGTCTATGACCTGGTGCCTCTGTTGTAAGGCCCTGGATAAAAGATCGCTTCATGGCCCCGGACATCGAG
GCAGCCCACAGGCTGCTCCTGGAGCAGAAGGTTTGGGAAGTAGCTGCTCCATACATTGAAAAATACAGAATGGAG
CATATTCCAGAATCAAGACCTCTTTCTCCAACAGCCTTTTCACTGCAATTTCTGCACAAGAAATCCACCAAAATC
CCGGAGTCTGAGGACCTTTTAATGGGCTTTGTGATGAAGTAGCAGATGAGAGGGCAGTCAGTTTAGCACAAAGCAA
TACTAGGCTGAAGGAGAGACCTGAGAACTTTCCTAGGTAGATCAATCCATTGTATCATTAGTTCTTCTAAAGCC
TACGTTGGTTAGGCTGATGGCAGTATTATAGTTGCTAAATTCAGCACTGTGTTCTGTTGTCGTGGTTCAAGACC
CACCAGGTATTTTTCAGATTATAAACTTTTCTTTCTTTCTTAAACAGTTTCAACAGGCCACTCACTCTTAAGGGTG
AGAAGAATAACCACAATTGTATGTGCTGTTTTTTTACTCTTAGCATTAGATGAATTCAAATTTGGAAACAGATTG
ATAGCAATTTTTTCTAAAAACATTAGACTTTTGTTAACCTTTTTTTTTTTTTTTTAAATTTGCTTCAACAAGCTCT
CCACCAGTTGACTTTCTTTGGCTAATTTTACTTTGCATGATATGCCTTAATATGCCTTCATAAATAACCATTTTA
AGTCATAATTTGTCCTTAAGCTGCTTTTTTCTTCTATTAATTGGATCATAGTAAAGAGTAGTCAATAGGGTCTTC
AGCTATTAATTGTAGAGGTGATTAACCAACAAGGAGTTTCATGTGCAAAGGAGATAAGGAATGAATATAAAGA
TTGCTATTTGGGTGGCTCTTATTAACCTGTGTATTTTGTACTTATCACTACACGTATCCCCCAAATGCTTACATG
GGAGTTTGAGGTTAGTATTTTCACTTCCTTGGTGTAGTACTCTATTACATTCTTATTGTAACCTTCCTCATT
CACAGATAAGGAATCTTTGGGGATTAACCAACCTCCTTTCTGTAATGGTAATCATTAAATAAG

734/2777
FIGURE 649

MPRYTVHVRGEWLAVPCQDAQLTVGWLGREAVRRYIKNKP DNGGFTSVDDAHFLVRRCKGLGLLDNEDRLEVALE
NNEFVEVIEGDAMSPDFIPSQPEGVYLYSKYREPEKYIELDGDRLTTEDLVNLGKGRYKIKLTPTAEKRVQKSR
EVIDSIIKEKTVVYGITTGFGKFARTVIPINKLQELQVNLVRSHSSGVGKPLSPERCRMLLALRINV LAKGYSGI
SLETLKQVIEMFNASCLPYVPEKGTVGASGDLAPLSHLALGLVGEKMWSPKSGWADAKYVLEAHGLKPVILKPK
EGLALINGTQMITSLGCEAVERASAIARQADIVAALTLEVLKGTTKAFDTDIHALRPHRGQIEVAFRFRSLDSD
HHPSEIAESHRCRDVQDAYTLRCCPQVHG VVNDTIAFVKNIITTELNSATDNPMVFANRGETVSGGNFHGEYPA
KALDYLAIGIHELAAISERRIERLCNP SLSELP AFLVAEGGLNSGFMIAHCTAAALVSENKALCHPSSVDSLSTS
AATEDHVSMGGWAARKALRVIEHVEQVLAIELLAACQGIEFLRPLKTTTTPLEKVYDLVRSVVRPWIKDRFMAPDI
EAAHRLLEQKVWEVAAPYIEKYRMEHIPESRPLSPTAFSLQFLHKKSTKIPESEDL

735/2777
FIGURE 650

CTTAACTCCTGATCTTTTGTAAAACCTATTGCTAGTCATAATGGATTTCTATAACCTGAAAGTTGATATAATACAG
CACGTGGAGCACTTTAAAAACAAAGAACTTGAAAAATAATTTTATTTTTTACCTTTACATGGTGTGTTCTAGACT
ACTGCATTATGACTACATAAACCTACCTGAGCTCTTACAAGTACAGAATTGTGAGACAGAGGTTTTGTGATGGAA
AACATACACATAGGGAAAAATACCAAACCTGAGCAATATAAATTTACAGCTCACATCTTAGCCAGTACAAAGAAA
CTTTCACATGGGGTGAATATTATAATACTTGAATTTGAGACTTAATACTGTATATGAATTAATCATCCCACTGTA
ATAACTGACATCTTCAAATAGTTGGGCTTATGAAAAATTTGACTAAGACATTTTATTTTATACCTTTATGTAAATG
TGAAATAAGTTCTGGTCATATAAATATGTAGAATGCATGTGTGTGAACCTCTATGAAGTGAAGTGTGGTGGCCTTT
TATGTTTCAGAGTACTCAAGTGTACAATTGATTTATATAAAAAATGCAAAATGAACCTCAGGTCATTTTGAAATTAA
TATTAATATTTTTGTTGTTTAACTTTAAAGCTAGCTCCCTAACTTTATATATTTTTTGGGAAAAAATACCTAAA
AACCTCAGCCTACAAAGACTCTCAGAAATGCCAAAGATTTTCAAGGAAATTCATATTATATATTTCAAAAATGAT
TTATCAATGTTATCTACCAAAGAAATAATTTTATTTTTCCCTTTGGGGAGATATTATCCTCTAATATGAGAAT
CAGATCCCTAGATTCTATTTCTACCTATACTATTAACTCAACCTTGAACCTGAGCTTGGTTGTTTCTGTGCCTT
AGTTTCTCCACTCGTAAACAATTTCTATTAATAATTTGTTTAAACACCAACCAAAATTTACCATATGTATTCATTC
TCTTGCTTAAAGATCACTTCTTAACTTACATTTGGCTCTCACCCTCTAAAAATTTGTAGTTTGGAGAGTAACTG
AAAGCACAAATTTAAGAAACATGTTTTCCTCACAAAATATATTGTAATCTGATTTTCTATCTTGTATTTCATGCA
GAAATTTGGAGAAAATGTGTATTGTCTTGTGCCATTCTGCAATATGAATTTCTCAGGAAAAAGATGTTTCAATGG
CAATACTTTCTTAAATAATTCAAGATGGGTGTGAGGACCTATCTTATTAGTTTAGTGCTGTGTTAACCATTGTG
AATTACTTCTTGTTTAAAGGAAGTTGTCAAAAAATTTTAAAGATTCTAAATGGAATACACGAATAAAGTAAGCCTT
AGAATAGAAACCTCACAAAAGTTGTCAATTTGCGGTTGATAATTAACATAGGTGTTTTATTCTCTCAACTCCTTA
GTACCAGAGCCAAATACAATTTAGTTTTAGAAATCTTATCAATATTGTTCTATTTACCTACTTATAAATCTGCA
GATAACCACTTGAACCAGGCAAAATACACTGAAGATAAAGGTTATTTCTTTTTTTAGCTTTGAATTTGTCATGACC
ATTTTAGTCTTGCAGATAGCAGGGCAGCCCCCTGGGGCAAGGATTTACTCTGGGAGGTACCGTTAAGAGCCTTCT
TTCCCCCTTTGAAAGATCCTTTTACAATGTTAAAGTATACTAGTTGCAAGAACAAGCAGGATTTGCAGGTTGCTT
TACCAGCATGAGTCTCATTTTTCTGGCTTAAATCTGGGACTGTGAAATTATTCCATAGGAAAGTGAATGTTATT
TTGCAGAATTAGCCTCTTACATAAAAAGTATTTGTTGAAGTGTCTTTAAATTTGCTATCATGAGCAAAACTGGTTG
CTGTAATGCTTGTTTTTCTGTATTTATTTACACATTAAATTTTACAAAACAAAATGTGTTTCGTTTGTTTTATAG
TAAGATGTTTTATTTTGAACCTTATTTAAATGTTTATTTGTTAGAGAAAACCTAATTTGTTAATATAGATCTTAACT
AGTAACTATTAAGCAGGGATGTTTGTTCCAAATATTCTTGAATAACAATCACCACAAACAAC

^{736/2777}
FIGURE 651

MIYQCYLPKEIILFFPFGEILSSNMRI⁷³⁶SLDSISTYTIKLNLEPELGCFALVSPLVNNFL

737/2777
FIGURE 652

TGCGGGTGAGGCTGGCGCCCGTACCATGAGCGAGGCGGACGGGCTGCGACAGCGCCGGCCCCCTGCGGCCGCAGGT
CGTCACAGACGATGATGGCCAGGCCCGGAGGCTAAGGACGGCAGCTCCTTTAGCGGCAGAGTTTTCCGAGTGAC
CTTCTTGATGCTGGCTGTTTTCTCTCACCGTTCCCCTGCTTGGAGCCATGATGCTGCTGGAATCTCCTATAGATCC
ACAGCCTCTCAGCTTCAAAGAACCCCCGCTCTTGCTTGGTGTTCTGCAATCAAATACGAAGCTGCGACAGGCAGA
AAGGCTGTTTGAAAATCAACTTGTTGGACCGGAGTCCATAGCACATATTGGGGATGTGATGTTTACTGGGACAGC
AGATGGCCGGGTGCTAAAACTTGAAAATGGTGAAATAGAGACCATTGCCCGGTTTGGTTTCGGGCCCTTGCAAAAC
CCGAGATGATGAGCCTGTGTGTGGGAGACCCCTGGGTATCCGTGCAGGGCCCAATGGGACTCTCTTTGTGGCCGA
TGCATACAAGGGACTATTTGAAGTAAATCCCTGGAAACGTGAAGTGAACTGCTGCTGTCCTCCGAGACACCCAT
TGAGGGGAAGAACATGTCCTTTGTGAATGATCTTACAGTCACTCAGGATGGGAGGAAGATTTATTTACCGATTTC
TAGCAGCAAATGGCAAAGACGAGACTACCTGCTTCTGGTGATGGAGGGCACAGATGACGGGCGCCTGCTGGAGTA
TGATACTGTGACCAGGGAAGTAAAGTTTTATTGGACCAGCTGCGGTTCCCGAATGGAGTCCAGCTGTCTCTCTGC
AGAAGACTTTGTCTGGTGGCAGAAACAACCATGGCCAGGATACGAAGAGTCTACGTTTCTGGCCTGATGAAGGG
CGGGGCTGATCTGTTTGTGGAGAACATGCCCTGGATTTCAGACAACATCCGGCCCAGCAGCTCTGGGGGGTACTG
GGTGGGCATGTGACCATCCGCCCTAACCTGGGTTTTCCATGCTGGATTTCCTATCTGAGAGACCCCTGGATTAA
AAGGATGATTTTTAAGCTCTTTAGTCAAGAGACGGTGATGAAGTTTGTGCCGCGGTACAGCCTCGTCTAGAACT
CAGCGACAGCGGTGCCTTCCGGAGAAGCCTGCATGATCCCGATGGGCTGGTGGCCACCTACATCAGCGAGGTGCA
CGAACACGATGGGCACCTGTACCTGGGCTCTTTCAGGTCCCCCTTCCTCTGCAGACTCAGCCTCCAGGCTGTTTA
GCCCTCCCAGATAGCTGCCCCTGCCACGCAGGCCAGGAGTCTTCACACTCAGGCACCAGGCCTGGTCCAGGAGGA
GCTGTGGACACAGTTCGTGGTTCAAGTGTCACATGCACCTATTAGTCCCTGAGAGGTGGTGGGAATGGCTGCTTC
ATTCTCGAGGATGCCCCGGGCCCCACCTGGGCTTGCTTTCTGTTTAGAGGGAAGTGTAACATATCTGCCATGAG
GAACATAAATTTCATGTAAAGCCATTTTCTCTTAAACAAAACAAAACCTTTCTAAGTACAGTCATTCTCTAGGATTT
GGGAAGCTCCTTGCACTTGGAACAGGGCTCAGGTGGGTGGAGCAGTAAGGCACTACCCAGAGAGCTTGCTGCTGC
GGCCCTGTCTGCGGCCTCAAAGTTCTTCTTTACTATATATAACGTGCGGTACATACCTTTCTTCGTTGTGGTGGG
GATGGAAGAGCAGAGGGAGCATGGCCCAGGGGTGTTGAGGCCAGCGGTGAGAGCCGTGTTAGCCAAGACATGGAA
CTGTGTTCTCAAGGGTTATGTGGGGCGTGGGCTCTCCATAGTGTGTATGAAAAGCTTGTTGACTCTAGCGGCTCA
GAGAGGACTTTGCTGGGTTTCTTCTGTGAATATCTCCGTGCTGACCATGCTGGAATTGGATGATTCTGCAATTC
GGGACCTACTGCAGGGGTCCGTTTAGTAACGCTTGCTGTGATCTTTGTTCTTGACCTCTAGACCCCAAGATGT
GAACAGTGCACGTGTTAATGTCATCTTTGCTCATGTGTTATAAGCCCCAAGTTGCTGTATATTTTACAAAGTATG
TCTACACACTGGTCATGATTTTGATAATAAATAACGATAAATCGAAAAAAAAAAAAAAAAAAAAA

738/2777
FIGURE 653

MSEADGLRQRRPLRPQVVTDDGQAPEAKDGSSFSGRVFRVTFLMLAVSLTVPLL GAMMLLESPI DPQPLSFKEP
PLLLGVLHPNTKLRQAERLFENQLVGPESIAHIGDVMFTGTADGRVVKLENGE IETIARFGSGPCKTRDDEPVCG
RPLGIRAGPNGTLFVADAYKGLFEVNPWKREVKLLLSSETPIEGKNMSFVNDLTVTQDGRKIYFTDSSSKWQRRD
YLLLVMEGTDDGRLL EYDTVTREVKVLLDQLRFPNGVQLSPAEDFVLVAETTMARIRRVYVSGLMKGGADLFVEN
MPGFDPNIRPSSSGGYWVGMSTIRPNPGFSMLDFLSE RPWIKRMIFKLF SQETVMKFVPRYSLVLELSDSGAFRR
SLHDPDGLVATYI SEVHEHDGHL YLGSFRSPFLCRLSLQAV

739/2777
FIGURE 654

GGAGGAGGAAGCAAGCGAGGGGGCTGGTTCCTGAGCTTCGCAATTCCTGTGTGCGCTTCTGGGCTCCCAGCCTGC
CGGGTCGCATGATCCCTCCGGCCGGAGCTGGTTTTTTTTGCCAGCCACCGCGAGGCCGGCTGAGTTACCGGCATCC
CCGCAGCCACCTCCTCTCCCGACCTGTGATACAAAAGATCTTCCGGGGGGCTGCACCTGCCTGCCCTTTGCCTAAGG
CGGATTTGAATCTCTTTCTCTCCCTTCAGAATCTTATCTTGGCTTTGGATCTTAGAAGAGAATCACTAACCAGAG
ACGAGACTCAGTGAGTGAGCAGGTGTTTTGGACAATGGACTGGTTGAGCCCATCCCTATTATAAAAAATGTCTCAG
AGCAACCGGGAGCTGGTGGTTGACTTTCTCTCCTACAAGCTTTCCAGAAAGGATACAGCTGGAGTCAGTTTAGT
GATGTGGAAGAGAACAGGACTGAGGCCCCAGAAGGGACTGAATCGGAGATGGAGACCCCACTGCCATCAATGGC
AACCCATCCTGGCACCTGGCAGACAGCCCCGCGGTGAATGGAGCCACTGGCCACAGCAGTGTGGATGCCCGG
GAGGTGATCCCCATGGCAGCAGTAAAGCAAGCGCTGAGGGAGGCAGGCGACGAGTTTGAACGCGGTACCGGCGG
GCATTGAGTGACCTGACATCCAGCTCCACATACCCCCAGGGACAGCATATCAGAGCTTTGAACAGGATACTTTT
GTGGAATCTATGGGAACAATGCAGCAGCCGAGAGCCGAAAGGGCCAGGAACGCTTCAACCGCTGGTTCCTGACG
GGCATGACTGTGGCCGGCGTGGTTCTGCTGGGCTCACTCTTCAGTCGGAATGACCAGACACTGACCATCCACTC
TACCCTCCCACCCCTTCTCTGCTCCACCACATCCTCCGTCCAGCCGCCATTGCCACCAGGAGAACCACTACATG
CAGCCCATGCCCACCTGCCCATCACAGGGTTGGGCCCAGATCTGGTCCCTTGCCAGCTAGTTTTCTAGAATTTATC
ACACTTCTGTGAGACCCCCACACCTCAGTTCCCTTGGCCTCAGAATTCACAAAATTTCCACAAAATCTGTCCAAA
GGAGGCTGGCAGGTATGGAAGGGTTTGTGGCTGGGGGCAGGAGGGCCCTACCTGATTGGTGCAACCCTTACCCCT
TAGCCTCCCTGAAAATGTTTTTCTGCCAGGGAGCTTGAAAGTTTTCAGAACCTCTTCCCCAGAAAGGAGACTAGA
TTGCCCTTTGTTTTGATGTTTGTGGCCTCAGAATTGATCATTTTCCCCCACTCTCCCCACACTAACCTGGGTTC
CTTTCCTTCCATCCCTACCCCTAAGAGCCATTTAGGGGGCACTTTTGAAGTAGGGATTGAGGCTGCTTGGGATAA
AGATGCAAGGACCAGGACTCCCTCCTCACCTCTGGACTGGCTAGAGTCCTCACTCCCAGTCCAAATGTCCTCCAG
AAGCCTCTGGCTAGAGGCCAGCCCCACCCAGGAGGGAGGGGGCTATAGCTACAGGAAGCACCCCATGCCAAAGCT
AGGGTGGCCCTTGCAAGTTGAGCACCACCCTAGTCCCTTCCCCTCCCTGGCTCCCATGACCATACTGAGGGACCAA
CTGGGGCCCAAGACAGATGCCCCAGAGCTGTTTATGGCCTCAGCTGCCTCACTTCCTACAAGAGCAGCCTGTGGCA
TCTTTGCCTTGGGCTGCTCCTCATGGTGGGTTTCAAGGGGACTCAGCCCTGAGGTGAAAGGGAGCTATCAGGAACAG
CTATGGGAGCCCCAGGGTCTTCCCTACCTCAGGCAGGAAGGGCAGGAAGGAGAGCCTGCTGCATGGGGTGGGGTA
GGGCTGACTAGAAGGGCCAGTCTGCTGCTGGCCAGGCAGATCTGTGCCCCATGCCTGTCCAGCCTGGGCAGCCAGG
CTGCCAAGGCCAGAGTGGCCTGGCCAGGAGCTCTTCAGGCCTCCCTCTCTCTTCTGCTCCACCCTTGGCCTGTCT
CATCCCCAGGGGTCCAGCCACCCCGGGCTCTCTGCTGTACATATTTGAGACTAGTTTTTATTCTTGTGAAGAT
GATATACTATTTTTGTTAAGCGTGTCTGTATTTATGTGTGAGGAGCTGCTGGCTTGCAAGTGCAGTGCAGCTGGA
GAGCTGGTGGCCGAGATTGGACGGCCTGATGCTCCCTCCCTGCCCTGGTCCAGGGAAGCTGGCCGAGGGTCTT
GGCTCCTGAGGGGCATCTGCCCCCTCCCCAACCCCCACCCACACTTGTTCAGCTCTTTGAAATAGTCTGTGTG
AAGGTGAAAGTGCAAGTTCAGTAATAAACTGTGTTTACTCAGTGAIAAAAAAAAAAAAAAAAAA

740/2777
FIGURE 655

MSQSNRELVVDFLSYKLSQKGYSWSQFSDVEENRTEAPEGTESEMETPSAINGNPSWHLADSPAVNGATGHSSSL
DAREVIPMAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTAYQSFEQVVNELFRDGVNWGRIVAFFSFGGAL
CVESVDKEMQVLVSRIAAMATYLNHLEPWIQENGWDTFVELYGNNAAESRKGQERFNRWFLTGMTVAGVVL
LGSLSRK

741/2777
FIGURE 656

CCAGTCTGCGGACCGTTTCGGAGCAACGTGGCGGCCCTTGCCCGCCAGCAATGCCTAGGAGCAGCCAAGCAGGGAC
CCGTCGGAACCCCTTCATCCAGCCTTTCTCTGGCGCATGGAGAACCTGGGGGTGCGCGAAGGGGCAGAGGCTTGC
AGCAGGTTGAGTCGCTCTCGCGGCCGCCACAGCATGACCAGAGCCCCGAAGCACCTGTGGCGGCAACCCCGGCGC
CCCATCCGCATCCAACAGCGCTTCTATTTCGGATCCGGACAAGTCCGCGGGCTGCCGCGAGAGGGACCTGAGCCCCG
CGGCCGGAGCTCAGGAAGTCGCGGCTCTCCTGGCCCGTTTCTCCTGCAGGCGCTTTGACCTGGAAAATGGGCTC
TCGTGTGGGAGGAGGGCCCTGGACCCTCAGTCCAGCCCTGGCCTGGGCGGATTATGCAGGCTCCAGTCCCGCAC
AGCCAGCGGCGCGAGTCCTTCTGTACCGCTCAGATAGCGACTATGAACTCTCGCCCAAGGCCATGTCTCGGAAC
TCCTCTGTGGCCAGCGACCTACATGGAGAGGACATGATTGTGACGCCCTTTGCCCAGGTCTGGCCAGTCTGCGG
ACCGTTTCGGAGCAACGTGGCGGCCCTTGCCCGCCAGCAATGCCTAGGAGCAGCCAAGCAGGGACCCGTCGGAAAC
CCTTCATCCAGCAATCAGCTCCCTCCTGCAGAGGACACGGGGCAGAAAGCTGGCATTGGAGACGCTAGACGAGCTG
GACTGGTGCCTGGATCAGTTGGAGACGCTGCAGACCCGGCACTCGGTGGGGGAGATGGCCTCCAACAAGTTCAAG
CGGATCCTGAACCGGGAGTTGACCCACCTGTCCGAAACCAGCCGCTCCGGGAACCAGGTGTCCGAGTACATCTCC
CGGACCTTCTTGACCAGCAGACCGAGGTGGAGCTGCCCAAGGTGACCGCTGAGGAGGCCCCACAGCCCATGTCC
CGGATCAGTGGCCTACATGGGCTCTGCCACAGTGCCAGCCTCTCCTCAGCCACTGTCCCACGCTTTGGGGTCCAG
ACTGACCAGGAGGAGCAACTGGCCAAGGAGCTAGAAGACACCAACAAGTGGGGACTTGATGTGTTCAAGGTGGCG
GACGTAAGTGGGAACCGGCCCTCACAGCTATCATATTCAGCATTTTTCAGGAGCGGGACCTGCTGAAGACATTC
CAGATCCCAGCAGACACACTGGCCACCTACCTGCTGATGCTGGAGGGTCACTACCACGCCAATGTGGCCTACCAC
AACAGCCTACATGCCGCCGACGTGGCCAGTCCACGCATGTGCTGCTGGCTACGCCCGCCCTCGAGGCTGTGTTT
ACAGACTTGGAATCCTGGCTGCCCTCTTTGCAAGCGCCATCCACGACGTGGACCATCCTGGGGTCTCCAACCAG
TTTCTGATTAACACCAACTCAGACGTGGCGCTTATGTACAACGACGCCCTCGGTGCTGGAGAACCATCACCTGGCT
GTGGGCTTCAAGCTGCTGCAGGCAGAGAACTGCGATATCTTCCAGAACCTCAGCGCCAAGCAGCGACTGAGTCTG
CGCAGGATGGTCATTGACATGGTGTGGCCACAGACATGTCCAAACACATGAACCTCCTGGCCGACCTCAAGACC
ATGGTGGAGACCAAGAAGGTGACAAGCCTCGGTGTCTCCTCCTGGACAACCTATTCCGACCGAATCCAGGTCTTG
CAGAACCTGGTGCATGTGCTGATCTGAGCAACCCACCAAGCCGCTGCCCTGTACCGCCAGTGGACGGACCGC
ATCATGGCCGAGTTCTTCCAGCAGGGAGACCGCGAGCGTGAGTCGGGCCTGGACATCAGTCCCATGTGTGACAAG
CATACGGCCTCAGTGGAGAAGTCCCAGGTGGGTTTCAATTGACTACATTGCTCACCCACTGTGGGAGACTTGGGCT
GACCTGGTCCACCCAGATGCACAGGACCTGCTGGACACGCTGGAGGACAATCGAGAGTGGTACCAGAGCAAGATC
CCCCGAAGTCCCTCAGACCTCACCAACCCGAGCGGGACGGGCCTGACAGATTCCAGTTTGAAGTACTCTGGAG
GAGGCAGAGGAAGAGGATGAGGAGGAAGAAGAGGAGGGGGAAGAGACAGCTTTAGCCAAAGAGGCCCTTGGAGTTG
CCTGACACTGAACTCCTGTCCCTGAAAGCCGGCCAGACCCTGGGGACTTACCCCTCGACAACCAGAGGACTT**AG**

GGCCAGCCCTGCGTGAAGTGCAGGGGCAATGGATGGTAAAGCCCTTTGGCTCTTGGCAGGCAGACTTTCCAGGAA
GAGGCTCCATGTGGCTCCTGCTTCACTTTCCACCCATTTAGGGAGACAATCAAGCTCTTAGTTATAGGTGGCTC
CCAGGGTCTAATTGGAGGCACCTGGCTGGGGTCCACTCTGACCCTAGACTTGCCTAAAAGAGCTCTCTAAGGGGC
AGCCTCTTACGATGCCCTGGTGTCTTTCTCCTGGGCTTCTATCCCTGTGAGGAGAGGTGTGTCTGCTGGAGCCT
CTAGTCCACCCTCTCCAGTGGTCACTCTTGAGTCACATCTGTCACTTAATTATTTCTTCTTTATCAAATATTTA
TTGCTCATCTACTTCGGGCCAGCTTTCTGCCTCTGTAGTAGCCCTGCACAAAGGGTGGGGAGTCAGGAGACCATC
CCAAAGGCATCTCCCTGTCTTCTCTACCAAGCGGCTCTCTGCAAGAGCATGGAAATGTGAGTGGGGAAAATTTT
CAGCACCAAGCTTCACTCATAACCCAGTTTGTCTTCTGAAACTACGGTAGGGGGCAGGAAGAGGAGCAGAAAAGA
AGGGCTGGGCAAGGCATAGTGGCTTATGCCTGTAATCCCGGTACTTTGGGAGGCTGAGGTGGGAGGACTGCTTAA
GCTCAGGAGTTTGGAGACCAGCCTGGGCAACATAGCAAGACCCCAACATCTCTGAAAAAATAATAGCCAGGCA
TGGTGGTGTGCACCTGAGAATCCAGCTACTCAGAAGGTTGAGACAAAGGGGATCGCTTGAGCCAGGAGTTGGA
GGCTGAAGAGAGCTATGACTGCATCACTGCACTCCAGCCTGGGCAACACAGCAAGATCCTGTCTAAAAATAAAAA
GAAAAGAGAAGGAAAGGAAAGAGACGGGGCTCTGAGGCCGAGCACAGTGGCCCATGCCTATAATCCAGCACTTT
GGGAGGCTGAGGCAGGTGGATCACCTGAGGTTAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAACCCCATCT
CTACTAAAAATACAAAAATTGGCTGGGCATGGTGGCGGGTGCCTGTAATCCAGCTACTGGGGAGGCTGAGGCAG
GAGAATCACTTGAATTCAGGAGGTGGAGGTTGCAGTGAGCCGACATCATGCCACTGCACTCCAGCCTGGGGCTGA
CAGAGCAAGACACTGTCTCAAAAAAGAAAAAAAAAAAAAAAAAAAAA

742/2777
FIGURE 657

MENLGVGEGAEACSRLSRSRGRHSMTRAPKHLWRQPRRPIRIQQRFYSDPKSAGCRERDLSPRPELRKSRLSWP
VSSCRRFDLENGLSGRRALDPQSSPGLGRIMQAPVPHSQRRRESFLYRSDSDYELSPKAMSRNSSVASDLHG EDM
IVTPFAQVLASLRTVRSNVAALARQQCLGA AKQGPVGNPSSSNQLPPAEDTGQKLAETLDELWDCLDQLETLQT
RHSVGEMASNKFKRILNRELTHLSETSRSGNQVSEYISRTFLDQQTEVELPKVTAE EAPQPMSRISGLHGLCHSA
SLSSATVPRFGVQTDQEEQLAKELED TNKWGLDVFKVADVSGNRPLTAIIFSIFQERDLLKTFQIPADTLATYLL
MLEGHYHANVAYHNSLHAADVAQSTHVLLATPALEAVFTDLEILAALFASAIHDVDHPGVS NQFLINTNSDVALM
YNDASVLENHHLAVGFKLLQAENCDIFQNL SAKQRLSLRRMVIDMVLATDMSKHMNLLADLKT MVETKKVTSIGV
LLLDNYS DRIQVLQNLVHCADLSNPTKPLPLYRQWTD RIMAEFFQQGDRERESGLDISPMCDKHTASVEKSQVGF
IDYIAHPLWETWADLVHPDAQDLLDTLEDNREWYQSKIPRSPSDLTNPERDGPDRFQFELTLEEAE EEEEEEEEE
GEETALAKEALELPDTELLSPEAGPDPGDLPDLNQRT

743/2777
FIGURE 658

AATTCTAGAAGTCCAAATCACTCATTGTTTGTGAAAGCTGAGCTCACAGCAAAACAAGCCACCATGAAGCTGTCTG
GTGTGTCTCCTGCTGGTACGCTGGCCCTCTGCTGCTACCAGGCCAATGCCGAGTTCTGCCCAGCTCTTGTTTCT
GAGCTGTTAGACTTCTTCTTCATTAGTGAACCTCTGTTCAAGTTAAGTCTTGCCAAATTTGATGCCCCCTCCGGAA
GCTGTTGCAGCCAAGTTAGGAGTGAAGAGATGCACGGATCAGATGTCCCTTCAGAAACGAAGCCTCATTGCGGAA
GTCCTGGTGAAAATATTGAAGAAATGTAGTGTGTGACATGTAAAACTTTCATCCTGGTTTCCACTGTCTTTCAA
TGACACCCTGATCTTCACTGCAGAAATGTAAAGGTTTCAACGTCTTGCTTTAATAAATCACTTGCTCTAC

744/2777
FIGURE 659

MKLSVCLLLVTIALCCYQANAFCFALVSELLDFFFISEPLFKLSLAKFDAPPEAVAAGLVKRCQDMSLQKRS
LIAEVLVKILKKCSV

745/2777
FIGURE 660

AGAACTAGTCTCGAGTTTTTTTTTGTCTGTCCTGGATTGGAGCCGTCCCTATAACCATCTAGTTCGGAGTACAAA
CTGGAGACAGAAATAAATATTAAAGAAATCATAGACCGACCAGGTAAAGGCAAAGGGATGAATTCCTACTTCACT
AACCCTTCCTTATCCTGCCACCTCGCCGGGGGCCAGGACGTCTCCCCAACGTCGCCCTCAATTCACCGCCTAT
GATCCAGTGAGGCATTTCTCGACCTATGGAGCGGGCCGTGCCCAGAACCGGATCTACTCGACTCCCTTTTATTCTG
CCACAGGAGAATGTCGTGTTTCAGTTCCAGCCGGGGGCCGTATGACTATGGATCTAATTCCTTTTACCAGGAGAAA
GACATGCTCTCAAACCTGCAGACAAAACACCTTAGGACATAACACACAGACCTCAATCGCTCAGGATTTTAGTTCT
GAGCAGGGCAGGACTGCGCCCCAGGACCAGAAAGCCAGTATCCAGATTTACCCCTGGATGCAGCGAATGAATTCG
CACAGTGGGGTCGGCTACGGAGCGGACCGGAGGCGCGGCCGCCAGATCTACTCGCGGTACCAGACCCTGGAAGT
GAGAAGGAATTTCACTTCAATCGCTACCTAACGCGGCGCCGGCGCATCGAGATCGCCAACGCGCTTTGCCTGACC
GAGCGACAGATCAAAATCTGGTTCCAGAACCGCCGGATGAAGTGGAAAAAGAATCTAATCTCACATCCACTCTC
TCGGGGGGCGGCGGAGGGGGCCACCGCCGACAGCCTGGGCGGAAAAGAGGAAAAGCGGGAAGAGACAGAAGAGGAG
AAGCAGAAAGAGTGAACCAGGACTGTCCCTGCCACCCCTCTCTCCCTTTCTCCCTCGCTCCCCACCAACTCTCCCC
TAATCACACACTCTGTATTTATCACTGGCACAATTGATGTGTTTTGATTCCCTAAAACAAAATTAGGGAGTCAAA
CGTGGACCTGAAAGTCAGCTCTGGACCCCTCCCTCACCGCACAACCTCTCTTTCTCCACGCGCCTCCTCCTCCTC
GCTCCCTTGCTAGCTCGTTCTCGGCTTGTCTACAGGCCCTTTTCCCGTCCAGGCCTTGGGGGCTCGGACCCTGA
ACTCAGACTCTACAGATTGCCCTCCAAGTGAGGACTTGGCTCCCCACTCCTTCGACGCCCCCACCCTCGCCCCC
CGTGCAGAGAGCCGGCTCCTGGGCCTGCTGGGGCCTCTGCTCCAGGGCCTCAGGGCCGGCCTGGCAGCCGGGGAG
GGCCGGAGCGGAGGGCGCGCCTTGGCCCCACACCAACCCCGAGGGCCTCCCGCAGTCCCTGCCTAGCCCCCTCTG
CCCCAGCAAATGCCAGCCAGGCAAATTGTATTTAAAGAATCCTGGGGGTCATTATGGCATTTTACAAACTGTG
ACCGTTTCTGTGTGAAGATTTTAGCTGTATTTGTGGTCTCTGTATTTATATTTATGTTTAGCACCGTCAGTGT
CCTATCCAATTTCAAAAAAGGAAAAAAGAGGGAAAATTACAAAAAGAGAGAAAAAAGTGAATGACGTTTGT
TAGCCAGTAGGAGAAAATAAATAAATAAATAA

746/2777
FIGURE 661

MNSYFTNP SLSCHLAGGQDVLPNVALNSTAYDPVRHFSTYGAAVAQNRIYSTPFYSPQENVVFSSSRGPYDYGSN
SFYQEKDMLSNCRQNTLGHNTQTSIAQDFSSEQGRTAPQDQKASIQIYPWMQRMNSHSGVGYGADRRRGRQIYSR
YQ TLELEKEFHFNRYLTRRRRIEIANALCLTERQIKIWFQNR RMKWK KESNL TSLSGGGGGATADSLGGKEEKR
EETEEEEKQKE

747/2777
FIGURE 662

AACACCATGAGGGCCCCTGGTGCTTCTGCTGTCCCTGTTCTGCTGGGTGGCCAGGCCCAGCATGTGTCTGACTGG
ACCTACTCAGAAGGGGCACTGGACGAAGCGCACTGGCCACAGCACTACCCCGCCTGTGGGGGCCAGAGACAGTCG
CCTATCAACCTACAGAGGACGAAGGTGCGGTACAACCCCTCCTTGAAGGGGCTCAATATGACAGGCTATGAGACC
CAGGCAGGGGAGTTCCCCATGGTCAACAATGGCCACACAGTGCAGATCGGCCTGCCCTCCACCATGCGCATGACA
GTGGCTGACGGCATTGTATACATAGCCCAGCAGATGCACTTTCACTGGGGAGGTGCGTCCCTCGGAGATCAGCGGC
TCTGAGCACACCGTGGACGGGATCAGACATGTGATCGAGATTACATTGTTCACTACAATTCTAAATACAAGACG
TATGATATAGCCCAAGATGCGCCGGATGGTTTGGCTGTACTGGCAGCCTTCGTTGAGGTGAAGAATTACCCTGAA
AACACTTATTACAGCAACTTCATTTCTCATCTGGCCAACATCAAGTACCCAGGACAAAAGAACAACCCTGACTGGC
CTTGACGTTTCAGGACATGCTGCCCAGGAACCTCCAGCACTACTACACCTACCATGGCTCACTCACCACGCCTCCC
TGCACTGAGAACGTCCACTGGTTTGTGCTGGCAGATTTTGTCAAGCTCTCCAGGACACAGGTTTGAAGCTGGAG
AATTCCTTACTGGATCACCGCAACAAGACCATCCACAACGATTACCGCAGGACCCAGCCCCTGAAACACAGAGTG
GTGGAATCCAACCTTCCCGAATCAGGAATACACTCTAGGCTCTGAATTCCAGTTTACCTACATAAGATTGAGGAA
ATTCTTGACTACTTAAGAAGAGCATTGAACTGAGGAAAGCTAAGAGGAAGATTCAATAATATTAAGTAGCTTGAA
GCCTGACCTAGCCAGAAGTGCCTGTCCGCTGCAGCCGCACCCTACCTTGTCTAAGAAACCATGTGTGTCTGGAAC
ACGCTGCTCCCCCTGGGCAGCTGTTGGGATTCTGATTAAAGAGGGGAAACGATCATCCTGGACAGGAAGTGAGATG
GCTTCAGTTCATGAGACGGGATCTGAGTTAGACATCACCAGTGGAATGATTGGAATAGAACTTAAAGGAAAT
GGAACCCTAACCTATTCTCCCATCAAATCATATATGTTGACCTGTCTGAATTATAAACCAGCCTGACCTTTCCTTT
AGCATTAGATGTAATAAAATAACTTTGGAAATTTGTCATTT

748/2777
FIGURE 663

MRALVLLLSLFLGGQAQHVSDWTYSEGALDEAHWPQHYPACGGQRQSPINLQRTKVRYNP SLKGLNMTGYETQA
GEFPMVNNGHTVQIGLPSTMRMTVADGIVYIAQQMHFWGGASSEISGSEHTVDGIRHVIEIHIVHYNSKYKTYD
IAQDAPDGLAVLA AFVEVKNYPENTYYSNFISHLANIKYPGQRTTLTGLDVQDMLPRNLQHYTTYHGSLTTPPCT
ENVHWFVLADFVKLSRTQVWKLENSLLDHRNKTIHNDYRRTQPLKHRVVESNFPNQEYTLGSEFQFYLHKIEEIL
DYLRRALN

749/2777
FIGURE 664

CGCCAGAGAGGCTCCCTCAGCCCTGCTCCGCGGGGTCCACAGCGGGCTCCACAGCGGGCTCCATAGCGGGCTCCA
CAGCGGTCCGGCGGCGGCAGCGAGCCCGTGGGCAGTGGGGGTGGTCCCGTGGCTCCGGCCCCCGGTGCAGAATG

GCGGCGGCGGTTCCGATGAACATCCAGATGCTGCTGGAGGCGGCCGACTATCTGGAGCGGCGGGAGAGAGAAGCT
GAACATGGTTATGCCTCCATGTTACCATAACAATAACAAGGACAGAGATGCCTTAAAACGGAGGAACAAATCCAAA
AAGAATAACAGCAGTAGCAGATCAACTCACAATGAAATGGAGAAGAATAGACGGGCTCATCTTCGCTTGTGCCTG
GAGAAGTTGAAGGGGCTGGTGCCACTGGGACCCGAATCAAGTCGACACACTACGTTGAGTTTATTAACAAAAGCC
AAATTGCACATAAAGAACTTGAAGATTGTGACAGAAAAGCCGTTACCCAAATCGACCAGCTTCAGCGAGAGCAG
CGACACCTGAAGAGGCAGCTGGAGAAGCTGGGCATTGAGAGGATCCGGATGGACAGCATCGGCTCCACCGTCTCC
TCGGAGCGCTCCGACTCCGACAGGGAAGAAATCGACGTTGACGTGGAGAGCACGGACTATCTCACAGGTGATCTG
GACTGGAGCAGCAGCAGTGTGAGCGACTCTGACGAGCGGGGCAGCATGCAGAGCCTCGGCAGTGATGAGGGCTAT
TCCAGCACCAGCATCAAGAGAATAAAGCTGCAGGACAGTCACAAGGCGTGTCTTGGTCTCTTAAGAGAGTGGGCAC
TGCGGCTGTCTCCTTGAAGGTTCTCCCTGTTGGTTCTGATTAGGTAACGTATTGGACCTGCCACAACCTCCCTTG
CACGTAAACTTCAGTGTCCACCTTGACCAAAATCAGCTTTGTAAGTGTTCAGGAGGTGCTTAGGATTGTGG
GTTTCTGATTGCATCACTAGCTTCTCC

750/2777
FIGURE 665

MAAAVRMNIQMLLEAADYLERREREAEHGYASMLPYNNKDRDALKRRNKSCKNNSSSRSTHNEMEKNNRAHLRLC
LEKLKGLVPLGPRESSRHTTLLTKAKLHIKKLEDCDRKAVHQIDQLQREQRHLKRQLEKLGIERIRMDSIGSTV
SSERSDSREEIDVDVESTDYLTGDLDWSSSSVSDSDERGSMQSLGSDEGYSSTSIKRIKLQDSHKACLGL

751/2777
FIGURE 666

CACTGAATAAACTCTAGGTTCCCATTTCTTTCAGCCAGATCCTCCCAGGGAATCACTACAGGCTGGTTAGCCAAA
AAGTCCTGATTTTCTGCTCAATAGAGGTCTTACTGGAAGGCAGCATGTCCAATGTTACCTTGAGAAAAATGTCT
CCCACAGGAAATGAGATGAAGAGCACCACTCAGGGAACCACACGGAAGCAGCAGGATTTTACAGAGGTGAACAAA
AGAAGAACTTTCTTACAGGATAACAGTTGGATAAAGAAACGCCCTGAAGAAGAAAAAGATGAAAATTACGGTAGG
GTGGTGCTCAACCGACATAATTCCCATGATGCATTGGACAGGAAAGTAAATGAGAGAGATGTGCCAAAAGCTACA
ATTAGTCGGTACAGTTCTGATGACACTTTGGACAGGATCTCAGACAGAAATGATGCTGCTAAAACATATAAGGCC
AATACCTTGGATAACCACTAACCAATAGGAGCATGTCCATGTTTAGATCACTGGAAGTAACAAAGTTGCAACCT
GGCGGTTTCATTGAATGCCAACACCTCCAACACCATAGCATCCACTTCTGCTACTACTCCTGTAAAGAAGAAGAGG
CAGTCCTGGTTTCCACCGCCCCCTCCAGGTTACAATGCCTCTTCGAGCACAGGAACCAGGAGACGGGAACCAGGT
GTTACCCCTCCAATACCTCCAAGCCCAGTTCTCCTGTTTCTTCTCCTAACAGCTGAGACAGGATAATAGGCAG
ATACATCCACCTAAACCAGGTGTATATACAGAAACCAACAGATCTGCTGAAAGAAATATAAGTGAAGAATTGGAT
AATCTCATCAAAATGAACAAAAAGCTTGAATAGGAATCAAGGTCTTGATAGTCTCTTCAGAGCAAAATCCAAAGGTA
GAAGAAAGAGAGAAAAAGAGCCAAAAAGCCTTGAAAGTCTCATCTATATAGTACCCGGACAGATAAAGATGGCAAA
GGAATCCAAAGCCTTGGAAGTCCGATTAAAGTTAATCAAAGGACTGACAAAAATGAGAAAGGAAGACAAAAATCTC
GAATCTGTTGCTAAAGTGAATGCCAGGATGAATAAAACGAGCAGAAGAAGTGAAGACCTTGATAATGCTACTGAA
GTAAATCCCAAAGGACATGAAAAATACCACTGGAAAAAAGACCTTGATGGGCTTATTAAAGTGGATCCTGAAACA
AATAAAAAATATTACGAGGGGCCAGAGCCTTGATAATCTCATCAAAGTGACCCCTGAAGTAAAGAGAAGTAACCAA
GGTTCCAAAGACCTTAATAACTTCATCAAAGTGTATCCAGGAACAGAAAAAGTACTGAAGGGGGCCAAAGTCTC
GACAGCCTCATTAAAGTGACTCCTGAAAGAAACAGAACTAACCAAGGGAACCAAGACTTGAAAAATCTTATCAA
GTGATCCCTTCAGCAAACAAAAGCAGTGAACAAGGTCTTGATGAACATATTAATGTCAGCCCCAAAGCTGTCAA
AACACTGATGGAAAAACAAGATCTTGATAAACTCATCAAGGTGAATCCTGAAATTTTCACAAACAACCAAGAAAC
CAAGATCTTGCTAACCTCATCAAAGTAAATGCTGCAGTAATCAGAAACAATCAGAGCCAAGACTTGAAAAATCTT
ATCAAAGTGATCCCTTCAGCTCTTAGAAACACTAATCGAGACCAGAACCTGGAAAAATTTAATTGAAGTAAATCT
CATGTGTCTGAAAACAAGAATGGAAGCTTAACACTGGAGCCAAGCAGGCAGGACCACAGGATACTGTTGTGTAC
ACAAGGACATATGTGGAGAATAGTAAATCACCCAAGGATGGATATCAGGAGAATATCTCTGAAAAATACATACAA
ACTGTTTATTCAACTTCTGATAGGTCTGTCATTGAAAGAGATATGTGCACTTACTGCCGAAAACCTTGGGTGTA
GAAACTAAAATGATTTTAGATGAATTACAAATTTGCTGCCATTCTACTTGCTTTAAGTGTGAAATATGCAAGCAG
CCTTTGAAAAATCTACAAGCGGGTGATAGTATTTGGATTTATAGACAGACAATACACTGTGAACCTTGCTACTCT
AAAATTATGGCAAAGTGGATTCCATAACTCTGGCACAAGGAAATCAAGATGAAAAGCACTCATTAGGAATTAAA
GTTACAAGTTTTATCTTAATAATATGTAATCTAGAAAAGCTTTCACATTGAAGATCAACTCTTGTAACAAATTA
CAATTCTGTTATTGCATAAGTAATCTAATTGTCTTCAATAAGGTCACACACATAAAAAAGAGCCATCTGGTCTCTG
GCTAGAGTTAGCAATAAAAAAGTTCAAATGGTTCCAGAAAAA

752/2777
FIGURE 667

MSNVTLRKMSPTGNEMKSTTQGTTRKQQDFHEVNRRTFLQDNSWIKKRPEEEKDENYGRVVLNRHNSHDALDRK
VNERDVPKATISRYSSDDTLDRISDRNDAAKTYKANTLDNQLTNRSMFMFRSLEVTKLQPGGSLNANTSNTIAST
SATTPVKKKRQSWFPPPPPGYNASSSTGTRRREP GVHPP IPPKPSSPVSSPNQLRQDNRQIHPPKPGVYTETNRS
AERNIRSQDLDNIVKVATSLQRSDKGEELDNLIKMNKSLNRNQGLDSLFRANPKVEEREKRAKSLES LIYMSTRT
DKDGKGIQSLGSP IKVNQRTDKNEKGRQNLESVAKVNARMNKTSRRSEDLNATEVNP KGHENTTGKKDLDGLIK
VDPETNKNITRGQSLDNLIKVTPEVKRSNQGSKDLNNFIKVYPGTEKSTEGGQSLDSLIVTPERNRTNQGNQDL
ENLIKVIP SANKSSEQGLDEHINVSPKAVKNTDGKQDLDKLIKVNPEIFTNNQRNQDLANLIKVNPAVIRNNQSQ
DLENLIKVIP SALRNTNRDQNLLENLIEVNSHVSENKNGSSNTGAKQAGPQDTV VYTRTYVENS KSPKDG YQENIS
GKYIQTVYSTSDRSVIERDMCTYCRKPLGVETKMILDELQICCHSTCFKCEICKQPLENLQAGDSIWIYRQTIHC
EPCYSKIMAKWIP

753/2777
FIGURE 668

CATT CAGAGACAGAAGGTGGATAGACAAATCTCCACCTTCAGACTGGTAGGCTCCTCCAGAAGCCATCAGACAGG
AAGATGTGAAAATCCCCAGCACTCATCCCAGAATCACTAAGTGGCACCTGTCCTGGGCCAAAGTCCCAGGACAGA
CCTCATTGTTCTCTGTGGGAATACCTCCCCAGGAGGGCATCCTGGATTTCCTCCCTTGCAACCCAGGTCAGAAGT
TTCATCGTCAAGGTTGTTTCATCTTTTTTTTCTGTCTAACAGCTCTGACTACCACCCAACCTTGAGGCACAGTG
AAGACATCGGTGGCCACTCCAATAACAGCAGGTCACAGCTGCTCTTCTGGAGGTGTCCTACAGGTGAAAAGCCCA
GCGACCCAGTCAGGATTTAAGTTTACCTCAAAAATCGAAGATTTTAACATGGAGAGTGACAGCTTTGAAGATTTT
TGGAAGGTGAAGATCTTAGTAATTACAGTTACAGCTCTACCCTGCCCTTTTCTACTAGATGCCGCCCATGT
GAACCAGAATCCCTGGAAATCAACAAGTATTTTGTGGTCATTATCTATGCCCTGGTATTCTGCTGAGCCTGCTG
GGAACTCCCTCGTGATGCTGGTCATCTTATACAGCAGGGTCGGCCGCTCCGTCAGTGATGTCTACCTGCTGAAC
CTAGCCTTGGCCGACCTACTCTTTGCCCTGACCTTGCCCATCTGGGCCGCTCCAAGGTGAATGGCTGGATTTTT
GGCACATTCTGTGCAAGGTGGTCTCACTCCTGAAGGAAGTCAACTTCTATAGTGGCATCCTGCTACTGGCCTGC
ATCAGTGTGGACCGTTACCTGGCCATTGTCCATGCCACACGCACACTGACCCAGAAGCGCTACTTGGTCAAATTC
ATAATGCTCAGCATCTGGGGTCTGTCTTGTCTCTGGCCCTGCCTGTCTTACTTTTTCCGAAGGACCGTCTACTCA
TCCAATGTTAGCCAGCCTGCTATGAGGACATGGGCAACAATACAGCAAACCTGGCGGATGCTGTTACGGATCCTG
CCCCAGTCCTTTGGCTTCATCGTGCCACTGCTGATCATGCTGTTCTGCTACGGATTACCCCTGCGTACGCTGTTT
AAGGCCACATGGGGCAGAAGCACCGGGCCATGCGGGTCATCTTTGCTGTGCTCCTCATCTTCTGCTCTGCTGG
CTGCCCTACAACCTGGTCTCTGCTGGCAGACACCTCATGAGGACCCAGGTGATCCAGGAGACCTGTGAGCGCCGC
AATCAGATCGACCGGGCTCTGGATGCCACCGAGATTCTGGGCATCCTTCACAGCTGCCTCAACCCCTCATCTAC
GCCTTCATTGGCCAGAAGTTTCGCCATGGACTCCTCAAGATTCTAGCTATACATGGCTTGATCAGCAAGGACTCC
CTGCCCAAAGACAGCAGGCCTTCCTTTGTTGGCTCTTCTTCAGGGCACACTTCCACTACTCTCTAAGACCTCCTG
CCTAAGTGCAGCCCGTGGGGTTCCCTCCCTTCTCTTCACAGTCACATTCCAAGCCTCATGTCCACTGGTTCTTCTT
GGTCTCAGTGTCAATGCAGCCCCATTGTGGTCACAGGAAGTAGAGGAGGCCACGTTCTTACTAGTTTCCCTTGC
ATGTTTTAGAAAGCTTGCCCTGGTGCCTCACCCCTTGCCATAATTACTATGTCAATTTGCTGGAGCTCTGCCCATC
CTGCCCTGAGCCCATGGCACTCTATGTTCTAAGAAGTGAAAATCTACACTCCAGTGAGACAGCTCTGCATACTC
ATTAGGATGGCTAGTATCAAAAGAAAGAAAATCAGGCTGGCCAACGGGGTGAAACCTGTCTCTACTAAAAATACA
AAAAAAAAAAAAAATTAGCCGGGCGTGGTGGTGAGTGCTGTAATCACAGCTACTTGGGAGGCTGAGATGGGAGA
ATCACTTGAACCCGGGAGCAGAGGTTGCAGTGAGCCGAGATTGTGCCCTGCCATCCAGCCTGAGCGACAGTGAG
ACTCTGTCTCAGTCCATGAAGATGTAGAGGAGAACTGGAACCTCTCGAGCGTTGCTGGGGGGGATTGTAAATGG
TGTGACCACTGCAGAAGACAGTATGGCAGCTTTCCTCAAACTTCAGACATAGAATTAACACATGATCCTGCAAT
TCCACTTATAGGAATTGACCCACAAGAAATGAAAGCAGGGACTTGAACCCATATTTGTACACCAATATTCATAGC
AGCTTATTCACAAGACCCAAAAGGCAGAAAGCAACCCAAATGTTTCATCAATGAATGAATGAATGGCTAAGCAAAAT
GTGATATGTACCTAACGAAGTATCCTTCAGCCTGAAAGAGGAATGAAGTACTCATAATGTTACAACACGGACGA
ACCTTGAAAACCTTTATGCTAAGTGAAATAAGCCAGACATCAACAGATAAATAGTTTATGATTCCACCTACATGAG
GTACTGAGAGTGAACAAATTTACAGAGACAGAAAGCAGAACAGTGATTACCAGGGACTGAGGGGAGGGGAGCATG
GGAAGTGACGGTTTAATGGGCACAGGGTTTATGTTTAGGATGTTGAAAAGTTCTGCAGATAAACAGTAGTGATA
GTTGTACCGCAATGTGACTTAATGCCACTAAATTGACACTTAAAAATGGTTTAAATGGTCAATTTTGTATGTAT
ATTTTATATCAATTTAAAAAAAACCTGAGCCCCAAAAGGTATTTTAAATCACCAGGCTGATTAAACCAAGGCTA
GAACCACCTGCCTATATTTTTTGTAAATGATTTCAATATCTTTTTTTTAAATAAACCATTTTTTACTTGGGT
GTTTAT

754/2777
FIGURE 669

MEDFNMESDSFEDFWKGEDLSNYSYSSTLPPFLD AAPCEPESLEINKYFVVIIYALVFLLSLLGNSLVMLVILY
SRVGRSVTDVYLLNLALADLLFALTLP IWAASKVNGWIFGTFLCKVVSLLKEVNFYSGILLACISVDRYLAIVH
ATRTLTQKRYLVKFICLSIWGLSLLLALPVLLFRRTVYSSNVSPACYEDMGNNTANWRMLLRILPQSFGFIVPLL
IMLCYGFTRLRTLFKAHMGQKHRAMRVIFAVVLIFLLCWLPPYNLVLLADTL MRTQVIQETCERNHIDRALDATE
ILGILHSCLNPLIYAFIQKFRHGLLKILAIHGLISKDSL PKDSRPSFVGSSSGHTSTTL

755/2777
FIGURE 670

GGAAACTTCTGCCTCAGGTGGGGAGAGGAGTCCATAGATCAGGGAACTTATGTCTTGGTGAAATGGAAGACCAT
GTTTCTAAACACCTGTCGCCAGGTTACTTGAATTTCCACTAGAGGAGCAGAAATGCCACCAATGCCAAGTGCCCC
ACCTGTGCATCCACCTCCAGATGGAGGATGGGGTTGGATTGTGGTTGGAGCAGCTTTTATCTCCATTGGATTTTC
CTATGCATTCCCCAAAGCTGTCACCGTATTCTTCAAAGAAATTCAGCAAATATTCCACACTACCTACAGTGAAAT
AGCATGGATTTTCATCCATTATGCTGGCTGTTATGTACGCAGGAGGTCTGTAAAGTAGTGTTTTGGTGAATAAATA
CGGCAGCCGGCCGGTGGTGATAGCAGGAGGCTTATTATGCTGTCTTGGAAATGGTGTGGCCCTCCTTTAGTAGCAG
CGTGGTACAGCTGTACCTCACTATGGGATTCTATTACAGGTTTAGGTTTAGCCTTCAACCTGCAACCCGCCTTAAC
CATAATTGGCAAATACTTCTATAGGAAGCGACCCATGGCAAATGGATTGGCCATGGCAGGAAGTCTGTTTTCTT
AAGTTCATTGGCTCCTTTCAATCAGTACCTTTTTAATACTTTTGGCTGGAAAGGAAGCTTCCTGATTTTGGGAAG
TCTACTTTTGAATGCCTGTGTGGCTGGTTCCCTCATGAGACCCCTTGGACCCAATCAAACCACTTCTAAGTCTAA
AAATAAGACTGGCAAACAGAAGATGATTCAAGCCCCAAAGAAAATCAAACGAAGAAATCAACTTGGGAAAAAGT
TAATAAGTATTTAGATTTCTCCCTTTTTAAGCATAGAGGATTTCTGATATATCTGTCTGGAAATGTCATTATGTT
CCTAGGTTTTTTTTGCCCCATTATATTCTTGGCTCCATATGCTAAAGACCAAGGAATTGATGAGTACTCGGCAGC
TTTTCTGCTATCTGTTATGGCTTTCGTTGATATGTTTGCTAGGCCTTCTGTAGGATTAATTGCAAACCTCCAATA
TATTTCGACCTCGAATTCAGTACTTCTTCAGTTTTGCAATCATGTTCAATGGAGTGTGTCACCTCTTGTGCCCACT
GGCACAGGACTACACAAGCCTGGTATTATATGCTGTATTTTTTGGCCCTTGGATTGGGAGTGTAGCAGTGTTCT
CTTTGAAACTCTCATGGACCTCGTGGGTGCACCAAGATTTTCCAGTGCCGTCGGACTTGTCACAATTGTGGAGTG
TGGCCCACTTCTTCTTGGCCCTCCTCTTGCAGGTAAATTGGTGGATTAACTGGAGAATATAAATACATGTACAT
GTCCGTGTTGGGCTATTGTGGTAGCAGCAAGCGTGTGGCTGCTCATTGGCAATGCTATCAACTATAGATTGCTTGC
AAAGGAAAGGAAGGAGGAAAATGCAAGGCAGAAGTCCAGAGAATCTGAACCTTGAGCAAATCTAAACATTTCGGA
AGATGTTAACGTCAAAGTTTCAAATGCACAGAGTGTAACCTCAGAAAGAGAACTAACATTTAACAAGAATCACA
TCTCTGATTTCAAGTGTATGACTTTATCTAGGAGTTTGTTTTTTCAATTTGTTTTTTAAAGTATTAGAAAAGGT
TTTAGCTGAAATGAGGAGTCACAATDAAGGATGGAGGTGATATTTTCTCAATGGCAAATTTTAAATTAGTTTT
TAAAACTTACTTATTTGGGTAGTTAAATTTTGAGATTATGCATAGAAAGAATCCATGCTATAGGTTTATTTCCA
TACCTGACTCTGGGTGTGGTGGTTAAATACTAATTTTAAAGTCTTCCAGTGACTTTCGGTCTTGGTTATATGGA
GAATTCTGAATCCCAAACCCCTGGTTTAAAGTAGGTAGAAGGAGGATGCCTAATCCTACAAAGTGACCCTTTATAC
ATTTCAATTTTTTATTTGATATTAAAGTATGAGATAGAGTTGAGAGACAATTAATTATCCCCCTTTACACACAAAC
ACACATACTCCACATACTTACCCACATGTACACAGAGTATCTGGAGAATAAAACCCAAATTCAAAAA
AAAA

756/2777
FIGURE 671

MPPMP\$APPVHPPPDGGGWIVVGAAFISIGFSYAFFPKAVTVFFKEIQQIFHTTYSEIAWISSIMLAVMYAGGPV
SSVLVNKYGSRPVVIAGGLLCCLGMVLASFSSSVVQLYLTMGFITGLGLAFNLQPALTIIGKYFYRKRPMANGLA
MAGSPVFLSSLAPFNQYLFNTFGWKGSFLILGSLLLNACVAGSLMRPLGPNQTTSKSKNKTGKTEDDSSPKKIKT
KKSTWEKVNKYLDLDFSLFKHRGFLIYLSGNVIMFLGFFAPIIFLAPYAKDQGIDEYSAAFLLSVMAFVDMFARPSV
GLIANSKYIRPRIQYFFSFAIMFNGVCHLLCPLAQDYTSLVLYAVFFGLGFGSVSSVLFETLMDLVGAPRESSAV
GLVTIVECGPVLLGPPLAGKLVDLTGEYKMYMSCGAIVVAASVWLLIGNAINYRLLAKERKEENARQKSRESE
LSKSKHSEDVNVKVSNAQSVTSERETNI

757/2777
FIGURE 672

GGGCTCGAACGCGCAGCGCACGGGAACCGGTCCCGCTGCTTGGGTCAGGTTCCGCCGGTCGCGGGAGCCCCGCCGT
GCAGTCGGAGGAACACGTGGCCATCAGTAATCATGAGCAACCCATTCGCACACCTTGCTGAGCCATTGGATCCTG
TACAACCAGGAAAGAAATTCTTCAATTTGAATAAAATTGGAGGATTCAAGATATGGGCGCTTACCATTTTCGATCA
GAGTTCTTCTGGAAGCAGCCATTTCGGAATTGTGATGAGTTTTTGGTGAAGAAACAGGATATTGAAAATATTCTAC
ATTGGAATGTCACTCAGCACAAGAACATAGAAGTGCCATTTAAGCCTGCTCGTGTATCCTGCAGGACTTTACGG
GTGTGCCCGCTGTGGTTGACTTTGCTGCAATGCGTGATGCTGTGAAAAAGTTAGGAGGAGATCCAGAGAAAATAA
ACCCTGTCTGCCCTGCTGATCTTGTAATAGATCATTCCATCCAGGTTGATTTCAACAGAAGGGCAGACAGTTTAC
AGAAGAATCAAGACCTGGAATTTGAAAGAAATAGAGAGCGATTGAAATTTTTAAAGTGGGGTTCCAGGCTTTTC
ACAACATGCGGATTATTCCCCCTGGCTCAGGAATCATCCACCAGGTGAATTTGGAATATTTGGCAAGAGTGGTAT
TTGATCAGGATGGATATTATTACCCAGACAGCCTCGTGCGGCACAGACTCGCACACTACCATGATTGATGGCTTGG
GCATTCTTGGTTGGGGTGTGGTGGTATTGAAGCAGAAGCTGTATGCTGGGTGAGCCAATCAGTATGGTGCTTC
CTCAGGTGATTGGCTACAGGCTGATGGGGAAGCCCCACCCTCTGGTAACATCCACTGACATCGTGCTCACCATT
CCAAGCACCTCCGCCAGGTTGGGGTAGTGGGCAAAATTTGTCGAGTTCTTCGGGCCTGGAGTAGCCAGTTGTCCA
TTGCTGACCGAGCTACGATTGCTAACATGTGTCCAGAGTACGGAGCAACTGCTGCCTTTTTCCAGTTGATGAAG
TTAGTATCACGTACCTGGTGCAAACAGGTCGTGATGAAGAAAAATTAAAGTATATTAAAAATATCTTCAGGCTG
TAGGAATGTTTCGAGATTTCAATGACCCTTCTCAAGACCCAGACTTCACCCAGGTTGTGGAATTAGATTTGAAAA
CAGTAGTGCCTTGCTGTAGTGGACCCAAAAGGCCTCAGGACAAAGTTGCTGTGTCCGACATGAAAAAGGACTTTG
AGAGCTGCCTTGAGGCCAAGCAAGGATTTAAAGGATTCCAAGTTGCTCCTGAACATCATAATGACCATAAGACCT
TTATCTATGATAACACTGAATTCACCCTTGCTCATGGTTCTGTGGTCATTGCTGCCATTACTAGCTGCACAAACA
CCAGTAATCCGTCTGTGATGTTAGGGGCAGGATTGTTAGCAAAGAAAGCTGTGGATGCTGGCCTGAACGTGATGC
CTTACATCAAACTAGCCTGTCTCCTGGGAGTGGCGTGGTCACCTACTACCTACAAGAAAGCGGAGTCATGCCTT
ATCTGTCTCAGCTTGGGTTTGACGTGGTGGGCTATGGCTGCATGACCTGCATTGGCAACAGTGGGCCTTTACCTG
AACCTGTGGTAGAAGCCATCACACAGGGAGACCTTGATGCTGTTGGAGTACTATCTGGAACAGGAATTTTGAAG
GTCGAGTTACCCCCAACACCCGGGCCAACTATTTAGCCTCTCCCCCTTAGTAATAGCATATGCAATTGCTGGAA
CCATCAGAATCGACTTTGAGAAAGAGCCATTGGGAGTAAATGCAAAGGGACAGCAGGTATTTCTGAAAGATATCT
GGCCGACTAGAGACGAGATCCAGGCAGTGGAGCGTCAGTATGTATCCCGGGGATGTTTAAAGGAAGTCTATCAGA
AAATAGAGACTGTGAATGAAAGCTGGAATGCCTTAGCAACCCCATCAGATAAGCTGTTTTTCTGGAATTCAAAT
CTACGTATATCAAATCACCACCATCTTTGAAAACCTGACTTTGGATCTTCAGCCCCCTAAATCTATAGTGGATG
CCTATGTGCTGCTAAATTTGGGAGATTGCGTAACAACTGACCACATCTCCCAGCTGGAAATATTGCAAGAAACA
GTCCTGTCTGCTCGCTACTTAACCTAACAGAGGCCCTAACCTCCACGAGAATTCAACTCCTATGGCTCCCGCCGAGGTA
ATGACGCCGTATGGCACGGGGAACATTTGCCAACATTTCGCTTGTTAAACAGATTTTTGAAACAAGCAGGCACCAC
AGACTATCCATCTGCCTTCTGGGGAAATCCTTGATGTGTTGATGCTGCTGAGCGGTACCAGCAGGCAGGCCTTC
CCCTGATCGTTCTGGCTGGCAAAGAGTACGGTGCAGGCAGCTCCCGAGACTGGGCAGCTAAGGGCCCTTTCTGC
TGGGAATCAAAGCCGTCTGGCCGAGAGCTACGAGCGCATTACCCGAGTAACCTGGTTGGGATGGGTGTGATCC
CACTTGAATATCTCCCTGGTGAGAAATGCAGATGCCCTGGGGCTCACAGGGCAAGAACGATACACTATCATTATTC
CAGAAAACCTCAAACCACAAATGAAAGTCCAGGTCAAGCTGGATACTGGCAAGACCTTCCAGGCTGTGATGAGGT
TTGACACTGATGTGGAGCTCACTTATTTCTCAACGGGGGCATCCTCAACTACATGATCCGCAAGATGGCCAAGT
AGGGAGACGTGCACTTGGTCTGTCGCCCAGGGAGGAAGCCGCACCACCAGCCAGCGCAGGCCCTGGTGGAGAGGCC
TCCCTGGCTGCCTCTGGGAGGGGTGCTGCCTTGATAGTGGAGCAAGTGAGCACTGAGGGTCTGGTGCCAATCCTG
TAGGCACAAAACCAGAAGTTTCTACATTCTCTATTTTTGTTAATCATCTTCTTTTTTCCAGAATTTGGAAGCTA
GAATGGTGGGAATGTCAGTAGTGCCAGAAAGAGAGAACCAAGCTTGCTTTAAAGTTACTGATCACAGGACGTTG
CTTTTTCACTGTTTCTTATTAATCTTCAGCTGAACACAAGCAAACCTTCTCAGGAGGTGTCTCTACCTCTTAT
TGTTCTCTTACGCTCTGCTCAATGAAACCTTCTCTTGAGGGTCATTTTCTTTCTGTATTAATTATACCAGTG
TTAAGTGACATAGATAAGAACTTTGCACACTTCAAATCAGAGCAGTGATTCTCTCTCTCTCCCCCTTTCTTCA
GAGTGAATCATCCAGACTCCTCATGGATAGGTCGGGTGTTAAAGTTGTTTTGATTATGTACCTTTTGATAGATCC
ACATAAAAAGAAATGTGAAGTTTTCTTTTACTATCTTTTCAATTTATCAAGCAGAGACCTTTGTTGGGAGGCGGTT
TGGGAGAACACATTTCTAATTTGAATGAAATGAAATCTATTTTCAGTG

758/2777
FIGURE 673

MSNPFAHLAEPLDPVQPGKKFFNLNKLEDSRYGRLPFSIRVLLEAAIRNCDEFLVKKQDIENILHWNVTQHKNIE
VPFKPARVILQDFTGVPVAVDFAAMRDAVKKLGGDPEKINPVCADLVIDHSIQVDFNRRADSLQKNQDLEFERN
RERFEFLKWGSQAFHNMRIIPPGSGIIHQVNLEYLARVVFDDQGYYPDSLVTGDSHTTMIDGLGILGWGVGGIE
AEAVMLGQPI SMVLPQVIGYRLMGKPHPLVTSTDIVLTITKHLRQVGVGKFEFFGPGVAQLSIADRATIANMC
PEYGATAAFFPVDEVSTYLVQTGRDEEKLKYIKKYLQAVGMFRDFNDPSQDPDFTQVVELDLKTVVPCCSGPKR
PQDKVAVSDMKKDFESCLGAKQGFKGFQVAPEHHNDHKTFIYDNTEFTLAHGSVIAAITSCTNTSNPSVMLGAG
LLAKKAVDAGLNVMPYIKTSLSPGSGVVYYLQESGVMPYLSQLGFDVVGYGCMTCIGNSGPLPEPVVEAITQGD
LVAVGVLSGNNRFEGRVHPNTRANYLASPPLVIAAIAAGTIRIDFEKEPLGVNAKGQVFLKDIWPTRDEIQAVE
RQYVIPGMFKEVYQKIETVNESWNAALATPSDKLFFWNSKSTYIKSPFFENLTLDLQPPKSIVDAYVLLNLGDSV
TTDHISPAGNIARNSPAARYLTNRGLTPREFNSYGSRRGNDAMARGTFANIRLLNRFLNKQAPQTIHLPSGEIL
DVFDAAERYQQAGLPLIVLAGKEYGAGSSRDWAAKGPFLLGIKAVLAESYERIHRNLVGMGVIPLEYLPGENAD
ALGLTGQERYTIIIPENLKPQMKVQVKLDTGKTFQAVMRFDTDVELTYFLNGGILNYMIRKMAK

759/2777
FIGURE 674A

CATGGCGGCGACTGCGGCAAAGCGAGAGCCTCGGAGACGCCGCTGCCGCCAGCACAGCCGGAGATCTGAGCCGAC
ACTGGGGGCGAGTCCGCGAGCCCCGCACTCTCTCGATGAGTCGGAGAAGTCCCGTTGTATCAGAGTAAGATGGACG
GTAGCTTTGATTGTGATTGTGGTGAGCTGGAGCCACCTGATCACTAACAAAAGACATCTTCTGTTAAACCAACAGC
CGCCAGGCTTCCTGTTGAAATAAATATATAGCAACAAAGGAAAAAAGAAGCAAAACGGAAATAGTGCTTACCAG
CACCTTAGAATGATGCTGCTCAGGACCAGTCCAACACTGAATGTATCTGCACGTGTGAGGAGAATGTTTCATAGAAG
CCTGTTGTGTGCATATTTATTCACCTTTTGTAAATGTTAAATCGTTTAGCACGGTAATCTGAGTGACAGTATG
TCATTTTCATTCCGTTTGAGTTTCTGTTTTCTGTTAAATGTCTGCAGAGTTGCTGCCCTTTCTTGAACATAGAGT
ACTGCAATCTTTTTTAATTCTCAATATGAATAGAGCTTTTTGAGCTTTAAATCTAAGGGGAACTCGACAGGCCCTGT
TTGGCATATGCAATGAACATCAAGAAACCATCTTGCTGTGGAAGCATAATTATTTTTCTTCTCCCTTTTTGAAAG
ATCTTTCTTTTTGATGCCAGTTTTCTTCTTGTTTACACAAGTTCAATTTGAAAGGAAAAGGCAATAGTAAGGGT
TTCAAAATGGCAGAGAAATTTGAAAGTCTCATGAACATTTCATGGTTTTGATCTGGGTTCTAGGTATATGGACTTA
AAACCATTGGGTTGTGGAGGCAATGGCTTGGTTTTTTCTGCTGTAGACAATGACTGTGACAAAAGAGTAGCCATC
AAGAAAATTGTCCTTACTGATCCCCAGAGTGTCAAACATGCTCTACGTGAAATCAAATTATTAGAAGACTTGAC
CATGATAACATTGTGAAAGTGTTTGAGATTCTTGGTCCAGTGGAAGCCAATTAACAGACGATGTGGGCTCTCTT
ACGGAACCTGAACAGTGTTTACATTGTTTCAGGAGTACATGGAGACAGACTTGGCTAATGTGCTGGAGCAGGGCCCT
TTACTGGAAGAGCATGCCAGGCTTTTCATGTATCAGCTGCTACGGGGGCTCAAGTATATTCACCTCTGCAAATGTA
CTGCACAGAGATCTCAAACCAGCTAATCTTTTCATTAATACGGAAGACTTGGTGTGAAGATAGGTGACTTTGGT
CTTGACGCGATCATGGATCCTCATTATTCCCATAAGGGTCATCTTCTGAAGGATTGGTTACTAAATGGTACAGA
TCTCCACGCTTTTTACTTTCTCCTAATAATTATACTAAAGCCATTGACATGTGGGCTGCAGGCTGCATCTTTGCT
GAAATGCTGACTGGTAAAACCCCTTTTGCAGGTGCACATGAACCTGAACAGATGCAGCTGATTTTAGAATCTATT
CCTGTTGTACATGAGGAAGATCGTCAGGAGCTTCTCAGCGTAATTCAGTTTACATTAGAAATGACATGACTGAG
CCACACAAACCTTTAACTCAGCTGCTTCCAGGAATTAGTCGAGAAGCACTGGATTTCTTGGAAACAAATTTTGACA
TTTAGCCCCATGGATCGGTTAACAGCAGAAGAAGCACTCTCCCATCCTTACATGAGCATATATTCTTTTCCAATG
GATGAGCCAATTTCAAGCCATCCTTTTCATATTGAAGATGAAGTTGATGATATTTTGCTTATGGATGAAACTCAC
AGTCACATTTATAACTGGGAAAGGTATCATGATTGTGAGTTTTCAGAGCATGATTGGCCTGTACATAACAACTTT
GATATTGATGAAGTTTCAGCTTGATCCAAGAGCTCTGTCCGATGTCACCTGATGAAGAAGAAGTACAAGTTGATCCC
CGAAAATATTTGGATGGAGATCGGGAAAAGTATCTGGAGGATCCTGCTTTTGATACCAATTACTCTACTGAGCCT
TGTTGGCAATACTCAGATCATCATGAAAACAAATATTGTGATCTGGAGTGTAGCCATACTTGTAACACAAAACG
AGGTATCATCATATTTAGATAACTTAGTTTGGAGAGAGAGTGAAGTTAACCATTACTATGAACCCAAAGCTTATT
ATAGATCTTTCCAATTGGAAAGAACAAAGCAAAAGAAAATCTGATAAGAAAGGCAAATCAAATGTGAAAGGAAT
GGATTGGTTAAAGCCCAGATAGCGCTAGAGGAAGCATCACAGCAACTGGCTGGAAAAGAAAGGGAAAAGAAATCAG
GGATTTGATTTTGATTCTTTTATTGTCAGGAACCTATTTCAGCTTAGTTCCAGCATGAGCCTACTGATGTTGTTGAT
AAATTAATGACTTGAATAGCTCAGTGTCCTCAACTAGAAATTGAAAAGTTTGATATCAAAGTCAGTAAGCCAAGAA
AAACAGGAAAAGGAATGGCAAATCTGGCTCAATTAGAAGCCTTGTACCAAGTCTTCTTGGGACAGCCAGTTTGTG
AGTGGTGGGAGGACTGTTTTTTCATAAATCAGTTTTGTGAGGTAAGGAAGGATGAACAAGTTGAGAAGGAAAAC
ACTTACACTAGTTACTTGGACAAGTTCTTTAGCAGGAAAGAAGATACTGAAATGCTAGAAACTGAGCCAGTAGAG
GATGGGAAGCTTGGGAGAGAGGACATGAGGAAGGATTTCTGAACAACAGTGGGAGTTTCTCTTTAACAAGCAG
CTCGAGTCCATAGGCATCCACAGTTTTACAGTCCAGTTGGGTCACCCTTAAGTCAATACAGGCCACATTAACA
CCTTCTGCTATGAAATCTTCCCTCAAATTCCTCATCAAACATACAGCAGCATTCTGAAACATCTGAACATAAAC
ACTCAGCAGACATTTATCTTTGTATTCTTCATGAAATGTGTTTTGTCTTTTTTTTATTACTAGTGTTAAGTCATT
TTTTACTTGAATCAGATGGTGTGCTATTAGTAAGGATTTTATGAGTCTTGTTTTTTAAATCCAGACTTTCTTTT
TCTACATGTGAGATAGTTTTTCAATTTAACTGGCATGTCTTTGCACACAAAATAAAGACTAGAGCAAAATAATG
CAACGCAGGAGGAGAAAAGAAATGCACTAAGACAAGAACATTCTCTCATAGAACATTGATCTGTTTTACAGGAAA
CAAACCTTGCTTGAATTTACACAGTGAGACTGTACATAATTGCATGAAAATAGCTATTTTTTCTTAAGACAT
TTTTTCAATCATGAATATTTTCAAGTTTTTCATACTGTACACATTTCTTAAACACATGATACCAGCAGCAACTGA
AAATGAATGCCGAATTTGGTACACATGTGTTATCTACCTCAAGGTAACAAGAGTATGTGGCAAAACATATACCAC
CCATAGTGCTTTCACAAAATGCACTTCTATTTAGCCAGCGTTTTATTGTAGTAAACTATTCTTAATAAAACTCACTC
ACTGTTTATAAATGTTCTGGTATGCATTCTTTATAGTGAAGTGTTAATACATCACATCTTATTTATTTTAGCAAA

760/2777
FIGURE 674B

TCAGTATATTTTCTGTATTTAATTATAAAAAATTAÀCTTAGTTTTTAAAATTTATTTGCAAATATACTTTTTTCCA
TTTGGCACTATGGTTTGTTCCTACCTAGCTGCATCTATAATGTCAGCTTATCCTAAGGCTGTCCACGTACTTAA
TTTACTTAAGTGTTTCATTTTAAGTAACGTGCTCACTGTGTATAGGAATTTGTATTTTGGAGGTGCTTGATCTATC
TACAAAGAAAAATTAATTAGGAATTACTTTATTATAAAATGCTCCTAGAAGTCTTAATTGTGTTTATTTTTTAAA
AAAACAAATGTTAGACTTGTGTGCATGGAAGTAATTAAGGTACATCATTATTGTAGTTTGAAAGTTGTACATGAT
AAGACATTTTGTTTTTTACTGTATGTTTTTACTGAATGATCTATTCCCCATCCCAAGGCAAGCATGAATAAAATTA
GGTTAAACGTAGCATGTGGCATCGCAGTCTCTTAGAATTTGTTTCATCTATTTTATTTTATTGAATACTGTCGT
ATCTTTGGTTATCCTGTTTGAAGAAAAAGGACAAATAAAACATGGCCAGCAAATACAAAAAAAAAAAAA

761/2777
FIGURE 675

MAEKFESLMNIHGFDLGSRYMDLKPLGCGGNGLVFSAVDNDCKRVAIKKIVLTDPQSVKHALREIKIIRRLDHD
NIVKVFEILGPSGSQLTDDVGSLTELNSVYIVQEYMETDLANVLEQGPLEEHARLFMYQLLRGLKYIHSANVLH
RDLKPANLFINTEDLVLKIGDFGLARIMDPHYSHKGHLSEGLVTKWYRSPRLLLSNNYTKAIDMWAAGCIFAEM
LTGKTLFAGAHELEQMQLILESIPVVHEEDRQELLSVIPVYIRNDMTEPHKPLTQLLPGISREALDFLEQILTFS
PMDRLTAAEALSHPYMSIYSFPMDEPISSHPFHIEDEVDDILLMDETHSHIYNWERYHDCQFSEHDWPVHNNFDI
DEVQLDPRALSDVTDEEEVQVDPRKYLDGDREKYLEDPAFDTNYSTEPWCWQYSDHHENKYCDLECSHTCNYKTRS
SSYLDNLVWRESEVNHYEYEPKLIIDLSNWKEQSKEKSDKKGKSKCERNGLVKAQIALEEASQQLAGKEREKNQGF
DFDSFIAGTIQLSSQHEPTDVVDKLNLDLNSSVSQLELKSLSKSVSQEKQEKGMANLAQLEALYQSSWDSQFVSG
GEDCFFINQFCEVRKDEQVEKENTYTSYLDKFFSRKEDTEMLETEPVEDGKLGERGHEEGFLNNSGEFLFNKQLE
SIGIPQFHSPVGSPLKSIQATLTPSAMKSSPQIPHQTYSSILKHLN

762/2777
FIGURE 676

CTGTGAAGATGGCGCTCTCCAGGGTGTGCTGGGCTCGGTCGGCTGTGTGGGGCTCGGCAGTCACCCCTGGACATT
TTGTCACCCGGAGGCTGCAACTTGGTCGCTCTGGCCTGGCTTGGGGGGCCCTCGGTCTTCAAAGCTTCACCTTT
CTCCAAAGGCAGATGTGAAGAACTTGATGTCTTATGTGGTAACCAAGACAAAAGCGATTAATGGGAAATACCATC
GTTTCTTGGGTCGTCAATTTCCCCGCTTCTATATCCTGTACACAATCTTCATGAAAGGATTGCAGATGTTATGGG
CTGATGCCAAAAGGCTAGAAGAATAAAGACAAATATGTGGAAGCACAATATAAAGTTTCATCAACTTCCATACC
GGGAGATGGAGCATTTGAGACAGTTCCGCCAAGACGTCACCAAGTGTCTTTTCTAGGTATTATTTCCATTCCAC
CTTTTGCCAACTACCTGGTCTTCTTGCTAATGTACCTGTTTCCCAGGCAACTACTGATCAGGCATTTCTGGACCC
CAAAACAACAACTGATTTCTTAGATATCTATCATGCTTTCCGGAAGCAGTCCCACCCAGAAATTATTAGTTATT
TAGAAAAGGTCATCCCTCTCATTTCTGATGCAGGACTCCGGTGGCGTCTGACAGATCTGTGCACCAAGATACAGC
GTGGTACCCACCCAGCAATACATGATATCTTGGCTCTGAGAGAGTGTCTTCTAACCATCCTCTGGGCATGAACC
AACTCCAGGCTTTGCACGTGAAAACCTTGAGCCGGGCCATGCTTCTCACATCTTACCTGCCTCCTCCCTTGTGTA
GACATCGTTTGAAGACTCATACAACCTGTGATTACCAACTGGACAAGGCTTTGGCAAAGCTGGGGATTGGCCAGC
TGACTGCTCAGGAAGTAAAATCGGCTTGTTATCTCCGTGGCCTGAATTCTACGCATATTGGTGAAGATAGGTGTC
GAACCTGGCTGGGAGAATGGCTGCAGATTTCCCTGCAGCCTGAAAGAAGCTGAGCTGTCTCTCTTGTCTGCACAACG
TGGTCTGCTCTCCACCAACTACCTTGGGACAAGGCGCTGAATGAACCATGGAGCGGATGGCATTGTCTCTGCAGT
CGTATAGTATAGCAGTGCAGGAACAAACAGCACTTGCCAGCAAAGTCTGTGTGTACTGTTAAGTGTGTGGGAGGC
AGAGAGAGGAGCAGGGGCCATGGGCTTCACAGCATGGCACACCTGTGGGAAGTGCAGACATTCCCTCTCACAGCTA
GAACTGAAACAAACCCCTCTTGCTAGGGGTGGTCCGTGTGAGGTGTCATCCTGTCCCCCTCATAATTACTAATAGC
TGGAAGTGGCAGCAGCCTCTACTGGGCTTTTACTGTGATGTGTTTCAAGTTCATGTCTTAGGAAGTCAGCTTTTGCC
CCAGGTGGGAATCCTTATTTGGCTTAGGACTGATCCACTTCCATGTTACTTACATCTGTGGGTTTTTGTGTTGTC
TGTTAGAAAATTTTTGGCTGGTGAAAACAGCACTCCTTTGGCTGGAGCACTTGTGTCCATGCATGTACTTGGGTG
TTTCCCTCCATCCTTTCTGATATGACCAAAAATCAAGTTGTTTTGTTTTTGTACCTTCACTGGCATGGGCTAA
CCACTTCTTTTTCAAACCCCTCTGAACACCTTTTTCTGATGGGTAACCTGCAGGAATATTCTATTGGAAAAGATAA
CAGGAAGTACAAGTGCTTCTTGACCCCTTCCTCAATGTTTCTAGCCTTCACTCTCCATTGTCTTTTCTGGGCTGT
ATTACAGCCCTCTGTGGATCTTCAACTCTGCTGCCTCCACTGTGATGCAGCAGTCCAAGTGAAGTGCAGTGGC
TGCCTTCTCTGGGCCATGGATCACACCTGTAAGGTACTAATTACTGCCCAGCCTGGGGAGATCAGGAGAGGTCTG
CATAGTTAGTAAGTTGGGTTTAGCTTTTGTGTGTGCATCAGTGACTTAGAGTTCTGTAATAACTTATTGTAAATG
CATGAAGCACTGTTTTTAAACCCAAGTAAAGACTGCTTGAAACCTGTTGATGGAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAA

763/2777
FIGURE 677

MALSRVCWARSÄVWGSAVTPGHFVTRRLQLGRSGLAWGAPRSSKLHLSPKADVKNLMSYVVTKTKAINGKYHREĹ
GRHFPRFYILYTIFMKGLQMLWADAKKARRIKTNMWKHNKIFHQLPYREMEHLRQFRQDVTCKCLFLGIISIPPFA
NYLVFLLMYLFPRQLLIRHFWTPKQQTDFLDIYHAFRKQSHPEIISYLEKVIPLISDAGLRWRLTDLCTKIQRGT
HPAIHDILALRECFSNHPLGMNQLQALHVKALSRAMLLTSYLPPPLLRHRLKTHTTVIHQLDKALAKLGIGQLTA
QEVKSACYLRGLNSTHIGEDRCRTWLGEWLQISCSLKEAELSLLLHNVVLLSTNYLGTRR

764/2777
FIGURE 678

AGA¹CTCAGCTCCTGGTGAAGCTCCCAGCCATCAGCCATGAGGGTCTTGTATCTCCTCTTCTCGTTCCCTCTTCATA
TTCCTGATGCCTCTTCCAGGTGTTTTGGTGGTATAGGCGATCCTGTTACCTGCCTTAAGAGTGGAGCCATATGT
CATCCAGTCTTTTGCCCTAGAAGGTATAAACAAATTGGCACCTGTGGTCTCCCTGGAACAAAATGCTGCAAAAAG
CCATTGAGGAGGCCAAGAAGCTGCTGTGGCTGATGCGGATTTCAGAAAGGGCTCCCTCATCAGAGACGTGCGACATG
TAAACCAAATTAAACTATGGTGTCCAAAGATACGCA

765/2777
FIGURE 679

MRVLYLLFSFLFIFLMPLPGVFGGIGDPVTCLKSGAICHVPVFCPRRYKQIGTCGLPGTKCCKKP

766/2777
FIGURE 680A

ATTCTCTTGCTCCCCGCCCCGTCGGGATCAGTCAGTGTGATCCGAAGCGGGGAGGGGGGGGGCGGCGGCCGAAC
GATGTGCGAGAAGTGCAGACCTGGTGGAGGTGTTAAATGAAATATCAGATGTAGAAGGTGGTGTGACTGCA
GCTCAGAAAGGAACATACTCTCAAAATATTTACTTACATCAATTCCTGGACACAGAGGCAATGTCTATGCTGCTT
CAAGGAATATAAGCATTGAGATTTTAAATCAAGTAGTGTGTGCACTTATTAACCTTAGTGATTGCCCAAGTTCA
AGTGCTCCGGGACCAGCTTTGTAAACATTGTACTACCATTAAACATAGATTCCACGTGGCAAGATGAGAGTAATCA
AGCAGAAGAACCCTGAATATAGATAGAGAGTGTAAATGAAGGAAGTACAGAAAGACAAAAATCAATAGAAAAAA
ATCAAACTCTACAAGAATTTGTAACTGTACTGAGGAGGAATCTTCAAAGAGTTCTGATCCTTTTAGTTTATGGAG
TACAGATGAGAAGGAAAACTCTTACTATGTGTGGCAAAAAATTTTTCAAATTCAGTTTCCCTTATATACTGCTT
ACAAGCATAAATACTCACCTACTATTGAGGATATATCAACTCAAGAAAGTAACATATTAGGGGCATTCTGTGATA
TGAATGATGTAGAAGTACCATTGCATTGCTTCGTTATGTATGTTTGTGTTTGTGGGAAAAATGGCCTTTCTCTCA
TGAAGGATTGCTTTGAATATGGAACCTCTGAACTTTGCCATTTCTTATAGCACATGCGTTTATTACAGTTGTGT
CTAATATTAGAATATGGCTACATATCCCCTGTCATGCAGCACATTATACCTTTTAGGACCTATGTTATTAGGT
ATTTATGCAAGCTCTCGGATCAGGAGTTACGACAGAGTGCAGCTCGTAACATGGCTGACTTAATGTGGAGCACAG
TCAAAGAACCATTGGATACAACATTATGCTTTGATAAAGAAAGCCTAGATCTTGCATTTAAGTACTTTATGTCAC
CTACTTTGACTATGAGGTTGGCTGGATTGAGTCAGATAACAAATCAACTCCATACCTTCAATGATGTGTGCAATA
ATGAATCATTAGTATCGGACACAGAAACGTCCATTGCAAAAGAACTTGCAGACTGGCTTATTAGCAACAATGTGG
TGGAGCATATATTTGGACCAAATTTACATATTGAGATTATCAAACAGTGCCAAGTGATTTTGAATTTTTTGGCAG
CAGAAGGGCGACTGAGTACTCAACATATTGACTGTATTTGGGCTGCAGCACAGTTGAAACATTGTAGTCGGTATA
TACATGACTTATTTCTTCACTCATCAAGAATTTGGATCCCGTACCCTTAGACATCTACTTAATCTGGTCTCAG
CTCTTGAGCCAAGTGTTCTACTGAACAGACACTGTACTTGGCATCCATGTTAATTAAAGCACTGTGGAATAACG
CACTAGCAGCTAAGGCTCAGTTATCTAAACAGAGTTCTTTTGCATCTTTATTAATACTAATATTCCCATTGGAA
ATAAGAAAGAGGAAGAAGAGCTTAGAAGAAGAGCTCCATCACCTTGGTCACCTGCAGCTAGTCTCAAAGCAGTG
ATAATAGCGATACACATCAAAGTGGAGGTAGTGACATTGAAATGGATGAGCAACTTATTAATAGAACCACAAATG
TGCAACAACGACTTTTCAGACACAGAGGAATCCATGCAGGGAAGTTCTGACGAAACTGCCAACAGTGGTGAAGATG
GAAGCAGTGGTCTCTGGTAGCAGTAGTGGGCATAGTGATGGATCTAGCAATGAGGTTAATTCTAGCCACGCAAGCC
AGTCAGCTGGGAGCCCTGGCAGTGAGGTACAGTCAGAAGACATTGCAGATATTGAAGCCCTCAAAGAGGAAGATG
AAGACGATGATCATGGTCATAATCTCCCAAAGCAGTTGTGGTACAGATCTTCGGAATAGAAAGTTAGAGAGTC
AAGCAGGCATTTGCCTGGGGGACTCCCAAGGCAGTCAGAAAGAAATGGGACAAGCAGCGGAACAGGAAAGGACC
TGGTTTTTAACTGAATCATTGCCATCAGTAGATAATCGAATGCGAATGCTGGATGCTTGTTCACACTCTGAAG
ACCCAGAACATGATATTTTCAAGGGGAAATGAATGCTACTCATATAGCACAAAGGGTCTCAGGAGTCTTGTATCACAC
GAACTGGGGACTTCTTGGGGGAGACTATTGGGAATGAATTATTTAATTGTGACAATTTATTGGTCCACAGCATC
ACCACCACCACCACCACCATCACCACCACCACGATGGGCATATGGTTGATGATATGCTAAGTGCAGATGATGTCA
GTTGTAGTAGCTCCCAGGTTAGTGCAAAATCAGAAAAAATATGGCTGATTTTGTGTTGAGTGAAGAATCTGGATGTG
AAGAGGAGCTAGTTCAGATTAATTCACATGCGGAACTGACATCTCACCTCCAACAACATCTTCCCAATTTAGCTT
CCATTTACCATGAACATCTTAGTCAAGGACCTGTAGTTCTATAACATCAATTCAACAGTAATGCTGTTACAGACA
TTAATTTGGATAATGTTTGAAGAAAGGAAATACTTTGTTGTGGGATATAGTCCAAGATGAAGATGCAGTTAATC
TTTCTGAAGGATTAATAAATGAAGCAGAGAACTTCTTTGTTGTTAGTATGTTGGTTTACAGATAGACAAATTC
GAATGAGATTCAATTGAAGGTTGCCTTGAAACTTGGGAAACAACAGATCAGTAGTAATTTCACTTCGTCTTCTTC
CAAACTATTTGGTACTTTTTCAGCAGTTTGGGAGCAGTTACGATACACACTGGATAACAATGTGGGCAGAAAAAG
AACTGAACATGATGAAGCTTTTCTTTGATAATTTGGTATACTACATTCAAACCTGTGAGAGAAGGAAGACAAAAAC
ATGCACTGTACAGCCATAGTGCTGAAGTTCAAGTTGCTCTTCAATTCCTTGAAGTGTGATTTTCAACTCTGGGAT
CACCTGATCATTTCAGGTTAAGTTTAGAGCAAGTTGACATCTTATGGCATTGTTTAGTAGAAGATTCTGAATGTT
ATGATGATGCACTCCATTGGTTTTTAAATCAAGTTGCAAGTAAAGATCAACATGCTATGGGTATGGAAACCTACA
AACATCTTTTCTGGAGAAGATGCCCCAGCTAAACCTGAAACAATTAGCATGACTGGCTTAAACCTGTTTCAGC
ATCTCTGTAACCTTGGCTCGATTGGCTACCAGTGCCTATGATGGTTGTTCAAATTCCTGAGCTGTGTGGTATGGACC
AATTTTGGGGCATTGCTTTAAGAGCACAACTGGTGATGTGAGTGCAGCAGCTATCCAGTATATTAACTCCTATT
ATATTAATGGTAAACAGGTTTGGAGAAGGAGCAAGAATTTATTAGTAAGTGCATGGAGAGTCTTATGATAGCTT
CTAGCAGTCTTGAACAGGAATCACACTCAAGTCTCATGGTTATAGAAAGAGGACTCCTTATGCTGAAGACACATC

767/2777
FIGURE 680B

TGGAAGCGTTTAGGAGAAGGTTTGCATATCATCTGAGACAGTGGCAAATTGAAGGCACTGGTATTAGTAGTCATT
TGAAAGCACTGAGTGACAAACAGTCTCTGCCGCTAAGGGTTGTATGCCAGCCAGCTGGACTTCCTGACAAGATGA
CTATTGAAATGTATCCTAGTGACCAGGTAGCAGATCTTAGGGCTGAAGTAACTCATTGGTATGAAAATTTACAGA
AAGAACAAATAAATCAACAAGCTCAGCTTCAGGAGTTTGGTCAAAGCAACCGAAAAGGAGAGTTTCCTGGAGGCC
TCATGGGACCTGTCAGGATGATTTTCATCTGGACACGAGTTAACAACAGATTATGATGAAAAAGCACTTCATGAGC
TTGGTTTTAAGGATATGCAGATGGTATTTGTATCTTTGGGTGCACCAAGGAGAGAGCGGAAAAGGGGAAGGTGTTT
AGCTGCCAGCATCTTGCTCCACCCCTCAGAAGGACAACATTCCAATGCTTTTGCTTTTACAAGAGCCTCATT
TAACTACTCTTTTTGATTTATTAGAGATGCTTGCATCATTTAAACCACCTCAGGAAAAAGTGGCAGTGGATGATA
GTGAGAGCTTACGATGTGAAGAAGTTTCATCTTCATGCAGAAAATCTGTCTAGGCGGGTCTGGGAGCTACTGATGC
TTCTTCTACATGTCCTAATATGTTGATGGCATTCCAGAATATCTCAGATGAGCAGAGTTTTTAAAAGCTCAGTCT
GATCACAGGTCTAGACATGAAGTTTCACATTATTCAATGTGGCTCTTGGTGAGTTGGGCTCATTGCTGTTCTTTA
GTGAAATCTAGCCTTGCTGATAGCGATCATTTACAAGATTGGCTAAAGAAATTGACTCTCCTTATTCTGAGACT
GCAGTTTGTGTCATGAATCATGCAGTGGTCTCTATAAGTTATCCCTGTCAGGGCTGGATGGAGGAGACTCAATCAAT
CGTTCTTTTCTGCTATTGGCTGCCTCAACATTATTGAAATTTCTTCCTGATGCTCAAGCACTCAAACCTATTAGG
ATAGATGATTATGAGGAAGAACCAATATTAAAACCAGGATGTAAAGAGTATTTTGGTTGTTATGCAAATTAGTT
GACAACATACATATAAAGGACGCTAGTCAGACAACGCTCCTCGACTTAGATGCCTTGGCAAGACATTTGGCTGAC
TGTATTGGAAGTAGGGAGATCCTTGATCATCAGGATGGTAATGTAGAAGATGATGGGCTTACAGGACTCCTAAGG
CTTGCAACAAGTGTGTTAAACACAAACCACCTTTAAATTTTCAAGGGAAGGACAGGTAAGTGTTAAGATAATC
AAATGTTTCTATGAAATGTGATTGAAATTTTTTGTGTTACATTGTGTATTAGTCCGTTTTTACACTGCTCATAA
AGGCATACCCGAGACTGGGCAGTTTACAAAAGAAAAGGGTTTAAATTCGACTCAGAGTTCCATGTGGCTGGGGAGG
CCTCACAATCGTGCCGGAAGGCAAGTCCGGGCAAGTCCGAGCAAGTCGCATCTTATGTGAATGGCGGCAGGCAAA
AAAAGAATGAGAACCAAGCGAAAAGCGGTTTCTCCTTATAAAACCATCAGATCTCAAGAGACTTATCACTTATCA
CAAGAACAGTATGGGGGAAACCGCCGCCATGATTTCAGTCATCTCCCACCAGGTCCCTCCCACAACAATGGGAATT
ATAGGCAATATAATTCAAGATGAGATTTGGGTGGAGACACGGCCAACTGTATCACATTGTATGTGGATATGTTA
ATTTTTTTAAACATACAGACATAAAAATTGCTAGAAATTACCGACAAGAAAAGCAAATTTTGAATAAATTGAATT
CTGGAATATAAAACGGGCTTGTTTTTAGAATACAAATCAGATGTTAATTCCTGTGACTGACTGAATATAGAAA
GGTAACCTAAGGCTGGGCACGGTGGCTCGTGCCTATAGTCCTGGCACTTTGAGTGGCTGAGGTGGGTGGATTGCT
TGAAACCAGGAGTTTCGAGACCAGCCAAGGCAACATGGTGAAACCTCATCCCTACAGAAAAATACAAAAATTTGCTG
GGTGTGGTGGCACACCTGTAGTCTCAGCTACTCGGGAGGCTGAGGTGGGAGGATTGCTTGAGCTCAGGAGGTC
GAGGCTTCAGTGAGCCATGATCACACCACTGCCTGTAGCCTAGGTGACAGAAGGAGAACGTGTCTC

768/2777
FIGURE 681

MRRKNSYYVWQKIFQIQFPLYTAYKHNTHTPTIEDISTQESNILGAFCDMNDVEVPLHLLRYVCLFCGKNGLSLMK
DCFEGTTPETLPFLIAHAFITVVSNIWHLHIPAVMQHIIPFRTYVIRYLCKLSDQELRQSAARNMADLMWSTVK
EPLDTTLCFDKESLDLAFKYFMSPTLTMLRAGLSQITNQLHTFNDVCNNESLVSDTETSIAKELADWLISNNVVE
HIFGPNLHIEIIKQCQVILNFLAAEGRSLTQHIDCIWAAAQLKHCSRYIHDLFPSLIKNDPVPPLRHLLNLVSAL
EPSVHTEQTLYLASMLIKALWNNALAAKAQLSKQSSSFASLLNTNIPIGNKKEEEELRRTAPSPWSPAASPOSSDN
SDTHQSGGSDIEMDEQLINRTKHVQQRLSDTEESMQSSDETANSGEDGSSGPGSSSGHSDGSSNEVNSSHASQS
AGSPGSEVQSEDIADIEALKEEDEDHGHNPCKSSCGTDLNRNKLKESQAGICLGDSQGTSENGTSSGTGKDLV
FNTESLPSVDNRMRLDACSHSEDPEDHISGEMNATHIAQGSQESCITRTGDFLGETIGNELFNCRQFIGPQH
HHHHHHHHHGHMVDDMLSADDVSCSSSQVSAKSEKNMADFGEESGCEEELVQINSHAEILTSHLQQHLPLNLASI
YHEHLSQGPVVHKKHOFNSNAVTDINLDNVCKKGNLTLLWDIVQDEDAVNLSEGLINEAEKLLCSLVCWFTDRQIRM
RFIEGCLNENLGNRSVVISLRLLPKLFGTFQQFGSSYDTHWITMWAEEKELNMMKLFFDNLVYYYIQTVREGROKHA
LYSHSAEVQVRLQFLTCVFTLGSFDPHFRLSLEQVDILWHCLVEDSECYDDALHWFLNQVRSKDQHAMGMETKYH
LFLEKMPQLKPETISMTGLNLFQHLCLNARLATSAYDGCNSSELGMDQFWGIALRAQSGDVSRAAIQYINSYYI
NGKTGLEKEQEFISKCMESLMIASSSLEQESHSSLMVIERGLLMLKTHLEAFRRRFAYHLRQWQIEGTGISSHLK
ALSDKQSLPLRVVCQFAGLPDKMTIEMYPQVADLRAEVTHWYENLQKEQINQQAQLQEFQSNRKGEFPGLM
GPVRMISSGHELTDDYDEKALHELGFKDMQMVVSLGAPRRERKGEVQLPASCLPPPQKDNIPMLLLLQEPHLT
TLFDLLEMLASFKPPSGKVAVDDSESLRCEELHLHAENLSRRVWELLMLLPTCPNMLMAFQNISDEQSFKSSV

769/2777
FIGURE 682

CCGGTGCAGCGGCTGGCGATCGGCCGCGGAGGTGCGTGCAGGGCCCCGCGCCGCGCGGTATCTCCACCGCCAAC
ACCTCAGCCACTGCCACTGCCACAGCCACACGAGGCCCCCCACCGTGCCTCCGCCGCTGCGGTCCCGGATCCGC
GCTCCACGCCCGCAGCCCGCGGCCACCAGCCCAGCATGCACCAGCTCTTTTCAGAAAACCCAGAAATTTACTC
CGTGGAGCTCAGCGGAACTAAGGACATCGTGAAAACAGACAAGGGGGATGGCAAGGAGAAGTATAGGGGTCTGAA
GAACAACCTGCCTGGAACCTAAAAAGAAAAATCACAAAGAGGAGTTTCAGAAAGAACTCCATCTGGATGACCACAA
ACTCAGCAATAGGGAATTGGAAGAGAAATATGGCACAGACATCATTATGGGTCTCTCCAGCACCAGAGCTGCCGA
GCTCCTGGCCCCGGATGGGGCCCACTCCCTCACCCCTCCCAAGCAGACGCCTGAGATCGTCAAGTTCTCAAGCA
GATGGTGGGGGGTTCTCTATCCTCCTGTGGGTGGGCGCCTTTCTCTGTTGGATTGCATATGGGATTCACTACTC
CAGCGACAAGTCTGCATCCCTGAACAACGTGTACTTGGGCTGTGTGCTTGGTCTGGTGGTCATTTTAACGGGGAT
CTTTGCTTATTACCAAGAGGCCAAAAAGCACCAACATCATGTCCAGCTTCAATAAGATGATCCCTCAGCAAGCTCT
CGTCATCCGAGATTCCGAGAAGAAGACCATCCCTTCAGAGCAGCTGGTGGTGGGGGACATTGTGGAGGTCAAAGG
AGGAGACCAGATCCCTGCAGACATCAGGGTGTGTCTTCTCAGGGGTGTGGGTGGGATAACTCATCTCTCACGGG
GGAGTCTGAGCCCCAGCCCCGCTCCTCTGAGTTTACCCATGAAAACCCCTTGAAACAAAGAACATCTGCTTCTA
TTCCACAACGTGTCTGGAAGGCATGTACCCGGCATGTTTATCAACACGGGTGACCGCACCATCATTGGCCATAT
TGCCTCATTGGCCTCAGGAGTTGGAATGAGAAGACGCCCATTTGCCATTGAGATCGAGCACTTTGTTTACATTGT
GGCAGGAGTGGCTGTCTCCATCGGCATCCTTTTCTTCATCATCGCTGTGTCCCTGAAGTATCAAGTCTCTGGACTC
CATCATCTTCTCATTGGCATCATTGTGGCCATGTGCCCGAGGGCCTCCTGGCCACTGTCACTGTGACCCCTGTC
GCTGACAGCAAAACGGATGGCCAAGAAGAACTGCCCTGGTGAAGAACCTGGAGGCTGTGGAGACCCCTCGGCTCCAC
CTCCATCATCTGCTCGGACAAGACTGGGACACTGACCCAGAACAGGATGACAGTGGCCCATCTGTGGTTTCGACAA
TCAGATCTTTGTGGCTGACACCAGTGAGGACCATTCAAACCAAGTCTTTGACCAAAGCTCTAGGACTTGGGCCCTC
CTTATCCAAGATAATAACATTGTGTAACCGAGCAGAGTTCAAGCCAGGACAGGAAAATGTCCCCATCATGAAGAA
AGCTGTGATTGGAGATGCCTCAGAACTGCTCTTTTAAATTTCTCAGAGGTCAATTTTGGGTGATGTGATGGAAT
TAGAAAAAGAAACCGCAAAGTAGCTGAAATCCCTTTTAACTCTACTAATAAATTTTCTCCTCCATCCACGAGAT
GGATGACCCCCACGGCAAGCGCTTCTCATGGTGATGAAGGGGGCCCTGAGCGCATTCTAGAGAAAATGCAGCAC
CATCATGATCAACGGCGAGGAGCACCCACTGGACAAGAGCACTGCCAAGACCTTCCACACAGCCTACATGGAGCT
GGGCGGGTTGGGCGAGCGTGTGCTGGGTTTCTGTCTCTTACCTGCCAGCAGACGAGTTTCCAGAAAACCTACTC
ATTTGACATAGACGCTATGAACTTTCCGACCTCCAACCTCTGTTTTGTGGGACTCTTGTCAATGATCGATCCCC
TCGGTCCACCGTGCCAGATGCAGTCACCAATGCGCGAGTGCAGGGATCAAGGTTATTATGGTTACTGGTGATCA
TCCCATCACAGCCAAAGCTATTGCCAAGAGTGTGGGGATCATTTCAGCCAACAGTGAAACAGTGGAAGACATTGC
ACATCGCCTCAACATTGCTGTGGAGCAAGTTAACAAACGGGATGCCAAGGCCGCTGTGGTGACTGGCATGGAGCT
GAAGGACATGAGCTCAGAACAGCTGGATGAGATCTTAGCCAACCTACCAGGAGATTGTCTTTGCCCGGACATCCCC
CCAGCAGAAGCTGATCATTGTGGAGGGCTGTGAGAGGACAGGATGCTGTTGTTGCTGTGACCGGGGATGGAGTTAA
TGACTCTCCGGCTCTAAAGAAGGCAGACATTGGGATTGCCATGGGGATAGCAGGTTCTGATGCAGCCAAAAATGC
AGCCGACATGGTCTTGTGAGACGACAACCTTCGCATCCATCGTACAGGGGTGGAGGAAGGTGCCTGATCTTTGA
CAACCTCAAGAAGACTATTGCTTATTCCCTGACCAAGAACATTGCCGAGCTGTGCCCCCTTCTGATCTACATCAT
TGTCGGGCTCCCCCTGCCCATTGGCACCATCACCATTCTGTTTATTGACTTGGGGACAGACATTATCCCCCTCAT
TGCCTTGGCGTACGAGAAAGCTGAAAGTGACATCATGAACAGGAAGCCTCGCCACAAGAATAAGGACAGGCTGGT
GAACCAGCCGCTCGCTGTGTACTCATACCTGCACATTGGCCTCATGCAAGCCCTGGGAGCTTTCTTGTGTATTT
CACCGTCTATGCACAAGAGGGCTTTCTGCCCCGCACTCTCATTAACTGCGGGTAGAATGGGAGAAGGACTACGT
GAATGACTTGAAAGACAGCTATGGGCAGGAATGGACAAGGTACCAGAGGGAATACCTAGAATGGACGGGCTACAC
GGCTTTCTTTGTTGGCATCCTAGTCCAGCAAATAGCAGATCTGATCATCAGGAAAACCCGGAGGAATTCCATCTT
CCAGCAGGGTCTCTTCAGAAATAAAGTCATCTGGGTGGGGATCACCTCACAGATCATCATTGGTCTGATCCTCTC
CTATGGCCTCGGAAGTGTACAGCCTTGAGTTTACCATGCTTAGGGCTCAGTACTGGTTTGTGGCTGTGCCGCA
CGCCATCCTGATCTGGGTGTATGATGAGGTGCGGAAGCTCTTCATCAGGCTCTACCCTGGAAGCTGGTGGGATAA
GAACATGTATTATTAAAGACCACCTCCCTTCTATGTCTCTCAGCAGCACGTTGGGGCACACTTGTTCATCTTCTG
ACCGTTTGTCTGGGCTATTCCCTGCAGTGCAGACATCGTCAAAATTCATACAAGAGGAAATTTTATGCAGAAAG
CTGTATGCAGGATGCTCACTGATGTTTTGCACTTTAAACTGAAATTCAACTCTTTATATAGGATTTTCTTTTCT
ATCTCCATCTCCTCATTAAAAAATACGTACATTTTCGAGGTAATGGTAT

770/2777
FIGURE 683

MHQLFQKTPEIYSVELSGTKDIVKTDKGDGKEKYRGLKNNCLELKKKNHKEEFQKELHLDHKL SNRELEEKYGT
DIIMGLSSTRAAELLARDGPNSLTTPPKQTPEIVKFLKQMVGGFSILLWVGAFLCWIA YGIQYSSDKSASLNNVYL
GCVLGLVVILTGIFAYYQEAKSTNIMSSFNMIPQQALVIRDSEKKTIPSEQLVVGDIVEVKGGDQIPADIRVLS
SQGCRVDNSSLTGESEPPQRSSEFTHENPLETKNICFYSTTCLEGTVTGMVINTGDR TIIGHIASLASGVGNEKT
PIAIEIEHFVHIVAGVAVSIGILFFIIAVSLKYQVLDSIIFLIGIIVANVPEGLLATVTVTLSLTAKRMAKKNCL
VKNLEAVETLGSTSIICSDKTGTLTQNRMTVAHLWFDNQIFVADTSEDHSNQVFDQSSRTWASLSKIITLCNRAE
FKPGQENVPI MKKAVIGDASETALLKFSEVILGDVMEIRKRNKVAEIPFNSTNKFQLSIHEMDDPHGKRFLMVM
KGAPERILEKCSTIMINGEEHPLDKSTAKTFHTAYMELGGLGERVLGFCHLYLPADEFPETY SFDIDAMNFPTSN
LCFVGLLSMIDPPRSTV PDAVTKCRSAGIKVIMVTGDHPITAKAIAKSVGII SANSETVEDIAHRLNIAVEQV NK
RDAKAAVVTGMELKDMSS EQLDEILANYQEIVFARTSPQOKLIIVEGCQRQDAVVAVTGDGVNDSPALKKADIGI
AMGIAGSDAAKNAADMVLLDDNFASIVTGVEEGR LIFDNLKKTIA YSLTKNIAELCPFLIYIIVGLPLPIGTITI
LFIDLGTDIIPSIALAYEKAESDIMNRKPRHKNKDRLVNQPLAVYSYLHIGLMQALGAFLVYFTVYAQEGFLPRT
LINLRVEWEKD YVNDLKDSYGQEWTRYQREYLEWTGYTAFVVGILVQQIADLIIRKTRNSIFQQGLFRNKVIWV
GITSQIIIGLILSYGLGSVTALSFTMLRAQYWFVAVPHAILIWVYDEV RKLFIRLYPGSWWDKNMY

771/2777
FIGURE 684

CCCAGACACCTGCTCACTCAACCACCAGCTGGGCTCCGCTGGGCCTGCCCGGCACCCACCCCGGCCACCAAGGGCA
GCAGCTTTTCCAGAATTTGGCTGGCAGGCCTAGTCACCCACCTCGCCACCTCACCACTGCACCTCGGAGGCCAG
CCCTGTCCACTCCACTCTGTGCCTGGCTTCTCTTGCCTGCCTTGGGCCTTCGTGTGGCCCTCCACGGTGTCTGGG
ACTGAGTGCCCCCTCTTGCTCCTGAAGAGCAGCCATGGCCACCTACAAAGTCAGGGTGGCCACAGGCACCGACCT
CTTGTCGGGAACACGGGACTCCATCTCACTGACCATTGTGGGGACACAAGGAGAGAGCCATAAGCAGCTGCTGAA
CCACTTTGGGAGAGACTTTGCAACTGGGGCGGTGGGCCAGTACACCGTGCAGTGCCCTCAGGACCTGGGTGAGCT
CATCATCATCCGCTGCACAAAGAGCGGTACGCCTTCTTCCCAAGGACCCTTGGTACTGCAACTATGTGCAGAT
CTGTGCCCCCAACGGCCGTATCTACCACTTCCCGCCTACCAGTGGATGGATGGCTACGAGACCCTGGCACTCCG
GGAGGCCACAGGAAAGACAACAGCAGATGACTCGCTCCCGTCTCCTGGAGCACAGAAAAGAGGAGATCAGAGC
CAAGCAGGACTTCTACCACTGGCGAGTCTTTCTTCTGGCCTGCCAGCTATGTGCACATTCCCAGTTACCGCCC
TCCGGTGGGAGGCATCGCAACCCCAACCGGCCTGAGTGGAAATGGCTATATTCCGGGATTCCCAATTCTCATCAA
CTTTAAGGCCACCAAGTTCTGAACTTAAATCTCCGCTACTCCTTCTCAAGACGGCCTCCTTCTTCGTCCGCCT
GGGGCCCATGGCACTGGCTTTCAAAGTCCGCGGCCTGTTGGACTGCAACATTTCGTGGAAGAGGCTGAAGGACAT
TAGGAAAATTTTCCCTGGCAAGAAAATCTGTCTCTCCGAGTACGTGGCCGAGCACTGGGCAGAGGACACCTTCTT
TGGGTACCACTCAACGGCGTCAACCCCGGCCTGATCCGCCGCTGCACGCGGATCCAGACAAGTTCCCGCT
CACAGACGACATGGTGGCTCCGTTCTTGGGCGAGGGAACGTGCTTGCAAGCGGAGCTGGAGAAGGGGAACATTTA
CCTGGCCGACTACCGCATCATGGAGGGCATCCCCACCGTGGAGCTCAGCGCCGGAAGCAGCACCCTGCGCCCC
CCTCTGCCTGCTGCACCTTTGGACCCGAGGGCAAGATGATGCCCATCGCCATCCAGCTCAGCCAGACCCTGGGCC
AGATTGCCCCATCTTCTGCCCAGTGATTCTGAGTGGGACTGGCTGCTAGCCAAGACGTGGGTACGCTATGCGGA
GTTCTACAGCCACGAGGCCATCGCCACCTGCTGGAGACACACCTCATTGCTGAGGCCTTCTGCCTGGCCTTGCT
GAGGAACCTGCCCATGTGCCACCCCTCTACAAGCTCCTCATCCCCATAACCGATAACCGTCCAGATCAACAG
CATTGGCCGGGCGTTCTCCTCAATGAGGGGGGGCTCTCTGCCAAGGGCATGTCCCTGGGCGTGGAAGGCTTTGC
TGGGGTGATGGTACGGGCTCTGTCTGGAGCTCACCTATGACAGCTTGGCGGTGTGGAATGCACTGGAGAAGTATGTGAC
GGAGATCATCACCTATTATTACCCGAGTGACGCAGCCGTGGAGGGTGATCCGGAATTGCAGTCTTGGGTGCAGGA
AATATTTAAAGAGTGCTCCTGGGGCGGGAGAGCTCAGGCTTCCCTAGGTGCTTGCGAACCGTGCTGAGCTGAT
CCGATATGTCACTATAGTCATCTACACCTGCTCTGCCAAGCACGCTGCTGTCAACACAGGCCAGATGGAGTTCAC
CGCCTGGATGCCCAACTTCCCAGCGTCCATGCGGAATCCACCGATTCACTAAGGGGCTGACCACTCTGGAGAC
CTTCATGGACACGTTGCCGGATGTGAAGACCACGTGCATCACGCTGCTGGTGCTCTGGACCCTCAGCCGAGAGCC
TGACGACAGGCGGCCCCCTGGGACACTTCCCGGACATTCACTTCGTGGAGGAGGCCCCGCGGAGGAGCATAGAGGC
GTTCCGCCAGCGCCTGAACCAGATCTCACACGACATCCGCCAGCGCAACAAGTGCTTCCCATCCCCTACTACTA
CCTGGACCCGGTGCTGATTGAGAACAGCATTCTATTATAGGAGCGCGCTTCCCGTCTCTCCTCTCCCCATTCTGT
GCCCTACTATTTTCAACAAAACAAAACAAACAAGCAAAAACACAAAACCTCAGAGACCAAAAACACCA

772/2777
FIGURE 685

MATYKVRVATGTDLLSGTRDSISLTIVGTQGESHKQLLNHFGRDFATGAVGQYTVQCPQDLGELIIIRLHKERYA
FFPKDPWYCNYVQICAPNGRIYHFPAYQWMDGYETLALREATGKTTADDSLPVLLHRKEEIRAKQDFYHWRVFL
PGLPSYVHIPSYRPPVRRHRNPNRPEWNGYIPGFPILINFKATKFLNLNLRYSFLLKTASFFVRLGPMALAFKVRG
LLDCKHSWKRLKDIRKIFPGKKSUVSEYVAEHWAEDTFFGYQYLNGVNPGLIRRCTRIPDKFPVTDDMVAPFLGE
GTCLQAELEKGNIIYLADYRIMEGIPTVELSGRKQHHCAPLCLLHFGPEGKMPPIAIQLSQTPGPDCEIFLPSDSE
WDWLLAKTWVRYAEFYSHAEIAHLLETHLIAEAFCLALLRNLPCHPLYKLLIPHTRYTVQINSIGRAVLLNEGG
LSAKGMSLGVEGFAGVMVRALSELTYSLYLPNDFVERGVQDLPGYYYRDDSLAVWNALEKYVTEIITYYYPDA
AVEGDPELQSWVQEIFKECLLGRESSGFPRCLRTVPELIRYVTIVITCSAKHAAVNTGOMEFTAWMPNFPASMR
NPPIQTKGLTTLETTFMDTLPDVKTTCTILLVLWTLREPDRRPLGHFPDIHFVEEAPRRSIEAFRQRLNQISHD
IRQRNKCLPIPIYYYLDPVLIENSISI

773/2777
FIGURE 686

TTGAACTCCTGGAGCCCGTCACCCAGGAAACCGGCCGCAATCGCCGGCCGACCTGAAGCTGGTTTCATGGCAGCC
TCAAAGAAGGCAGTTTTTGGGGCCATTGGTGGGGGCGGTGGACCAGGGCACCAGTTTCGACGCGCTTTTTGGTTTTT
AATTCAAAAACAGCTGAACTACTTAGTCATCATCAAGTAGAAATAAAACAAGAGTTCCCAAGAGAAGGATGGGTG
GAACAGGACCCTAAGGAAATTCTACATTCTGTCTATGAGTGTATAGAGAAAACATGTGAGAAACTTGGACAGCTC
AATATTGATATTTCCAACATAAAAGCTATTGGTGTGTCAGCAACCAGAGGGAAACCACTGTAGTCTGGGACAAGATA
ACTGGAGAGCCTCTCTACAATGCTGTGGTGTGGCTTGATCTAAGAACCCAGTCTACCGTTGAGAGTCTTAGTAAA
AGAATTCCAGGAAATAATAACTTTGTCAAGTCCAAGACAGGCCTTCCACTTAGCACTTACTTCAGTGCAGTGAAA
CTTCGTTGGCTCCTTGACAATGTGAGAAAAGTTCAAAAGGCCGTTGAAGAAAAACGAGCTCTTTTTGGGACTATT
GATTCATGGCTTATTTGGAGTTTGACAGGAGGAGTCAATGGAGGTGTCCACTGTACAGATGTAACAAATGCAAGT
AGGACTATGCTTTTCAACATTCACTCTTTGGAATGGGATAAACAACCTCTGCGAATTTTTTGAATTCCAATGGAA
ATTCTTCCAATGTCCGGAGTTCTTCTGAGATCTATGGCCTAATGAAAGCTGGGGCCTTGAAGGTGTGCCAATA
TCTGGGTGTTTAGGGGACCAGTCTGCTGCATTGGTGGGACAAATGTGCTTCCAGATTGGACAAGCCAAAAATACG
TATGGAACAGGATGTTTCTTACTATGTAATACAGGCCATAAGTGTGTATTTTCTGATCATGGCCTTCTCACCACA
GTGGCTTACAACTTGGCAGAGACAAACCAGTATATTATGCTTTGGAAGGTTCTGTAGCTATAGCTGGTGTCTGT
ATTCGCTGGCTAAGAGACAATCTTGAATTATAAAGACCTCAGAAGAAATTGAAAACTTGCTAAAGAAGTAGGT
ACTTCTTATGGCTGCTACTTCGTCCCAGCATTTTCGGGGTTATATGCACCTTATTGGGAGCCCAGCGCAAGAGGG
ATAATCTGTGGACTCACTCAGTTCACCAATAAATGCCATATTGCTTTTGCTGCATTAGAAGCTGTTTGTTCCAA
ACTCGAGAGATTTTGGATGCCATGAATCGAGACTGTGGAATTCACCTCAGTCATTTGCAGGTAGATGGAGGAATG
ACCAGCAACAAAATTCCTATGCAGCTACAAGCAGACATTCTGTATATACCAGTAGTGAAGCCCTCAATGCCCCGAA
ACCACTGCCTGGGTGCGGCTATGGCGGCAGGGGCTGCAGAAGGAGTCGGCGTATGGAGTCTCGAACCCGAGGAT
TTGTCTGCCGTACGATGGAGCGGTTTGAACTCAGATTAATGCGGAGGAAAGTGAAATTCGTTATTCTACATGG
AAGAAAGCTGTGATGAAGTCAATGGGTTGGGTTACAACCTCAATCTCCAGAAAGTGGTATTCCATAAAACCTACCA
ACTCATGGATTCCCAAGATGTGAGCTTTTACATAATGAAAGAACCCAGCAATTCTGTCTCTTAATGCAATGACA
CTATTCATAGACTTTGATTTTATTATAAGCCACTTGCTGCATGACCCTCCAAGTAGACCTGTGGCTTAAAAATAA
AGAAAATGCAGCAAAAAGAATGCTATAGAAATATTTGGTGGTTTTTTTTTTTTTAAACATCCACAGTTAAGGTTG
GGCCAGCTACCTTTGGGGGTGACCCCCCATTGCCATAACATCCTGCTCCATTCCCTCTAAGATGTAGGAAGAA
TTCGGATCCTTACCATTGGAATCTCCATCGAACATACTCAAACACTTTTGGGCCAGGATTTGAGTCTCTGCATG
ACATATACTTGATTAAAAGGTTATTACTAACCTGTTAAAAATC

774/2777
FIGURE 687

MAASKKAVLGPLVGAVDQGTSSSTRFLVFNSKTAELLSHHQVEIKQEFPREGWVEQDPKEILHSVYECIEKTCEKL
GQLNIDISNIKAIGVSNQRETTVVWDKITGEPLYNAVWLDLRTQSTVESLSKRIPGNNNFVKSKTGLPLSTYFS
AVKLRWLLDNVRKVQKAVEEKRALFGTIDSWLIWSLTGGVNGGVHCTDVTNASRTMLFNIHSLEWDKQLCEFFGI
PMEILPNVRSSEIYGLMKAGALEGVPISGCLGDQSAALVGQMCFOIGQAKNTYGTGCFLLCNTGHKCVFSDHGL
LTTVAYKLGRDKPVYYALEGSVAIAGAVIRWLRDNLGIIKTSEEIEKLAKEVGTSYGCYFVPAFSGLYAPYWEPS
ARGIICGLTQFTNKCHIAFAALEAVCFQTREILDAMNRDCGIPLSHLQVDGGMTSNKILMQLOADILYIPVVKPS
MPETTALGAAMAAGAAEGVGVSLEPEDLSAVTMERFEPQINAESEIRYSTWKKAVMKSMGWVTTQSPESGIP

775/2777
FIGURE 688

GTACCTGTCTATAAGGAGTCCCTGCTTATCACAATGAATGTTCTCCTGGGCAGCGTTGTGATCTTTGCCACCTTCG
TGACTTTATGCAATGCATCATGCTATTTTCATACCTAATGAGGGAGTTCCAGGAGATTCAACCAGGAAATGCATGG
ATCTCAAAGGAAACAAACACCCAATAAACTCGGAGTGGCAGACTGACAACTGTGAGACATGCACTTGCTACGAAA
CAGAAATTTTCATGTTGCACCCTTGTTTCTACACCTGTGGGTTATGACAAAGACAACTGCCAAAGAATCTTCAAGA
AGGAGGACTGCAAGTATATCGTGGTGGAGAAGAAGGACCCAAAAAGACCTGTTCTGTCAGTGAATGGATAATCT
AATGTGCTTCTAGTAGGCACAGGGCTCCCAGGCCAGGCCTCATTCTCCTCTGGCCTCTAATAGTCAATGATTGTG
TAGCCATGCCTATCAGTAAAAAGATTTTTGAGCAAACACTTGAATATGTGTGTCCTTTTAATTTATAATTTATGT
ATGCATTGATTTAATACACATTATAAAGAATACAAAACATTTAAAAA

776/2777
FIGURE 689

MNVLLGSVVIFATFVTLCNASCYFIPNEGVPGDSTRMFLHLWVMTKTTAKESSRRRTASISWRRRTQKRPVLSV
NG

777/2777
FIGURE 690

ACACTCTACCACCAATGAATCCATTCCCTGATCCTTGCCTTTGTGGGAGCTGCTGTTGCTGTCCCCTTTGACGATGA
TGACAAGATTGTTGGGGGCTACACCTGTGAGGAGAATTCTCTCCCCTACCAGGTGTCCCTGAATTCTGGCTCCCA
CTTCTGCGGTGGCTCCCTCATCAGCGAACAGTGGGTGGTATCAGCAGCTCACTGCTACAAGACCCGCATCCAGGT
GAGACTGGGAGAGCACAAACATCAAAGTCCTGGAGGGGAATGAGCAGTTCATCAATGCGGCCAAGATCATCCGCCA
CCCTAAATACAACAGGGACACTCTGGACAATGACATCATGCTGATCAAACCTCTCCTCACCTGCCGTCATCAATGC
CCGCGTGTCCACCATCTCTCTGCCCACCGCCCCCTCCAGCTGCTGGCACTGAGTGCCTCATCTCCGGCTGGGGCAA
CACTCTGAGCTTTGGTGCTGACTACCCAGACGAGCTGAAGTGCCTGGATGCTCCGGTGCTGACCCAGGCTGAGTG
TAAAGCCTCCTACCCTGGAAAAGATTACCAACAGCATGTTCTGTGTGGGCTTCCTTGAGGGAGGCAAGGATTCTTG
CCAGCGTGACTCTGGTGGCCCTGTGGTCTGCAACGGACAGCTCCAAGGAGTTGTCTCCTGGGGCCATGGCTGTGC
CTGGAAGAACAGGCCTGGAGTCTACACCAAGGTCTACAACATATGTGGACTGGATTAAGGACACCATCGCTGCCAA
CAGCTAAAGCCCCCGGTCCCTCTGCAGTCTCTATACCAATAAAGTGGCCCTGCTCTC

778/2777
FIGURE 691

MNPFLILAFVGA AVVPFDDDDKIVGGYTCEENSLPYQVSLNSGSHFCGGS LISEQWVVSAAHCYKTRIQVRLGE
HNIKVLEGNEQFINAAKIIRHPKYNRDTLDNDIMLIKLS SPAVINARVSTISLPTAPPAAGTECLISGWNTLSF
GADYPDELKCLDAPVLTQAECKASYPGKITNSMFCVGFLEGGKDSCQRDSGGPVVCNGQLQGVVSWGHGCAWKNR
PGVYTKVYNYVDWIKDTIAANS

779/2777
FIGURE 692

GAGTGGGAATCTCAAAGCAGTTGAGTAGGCAGAAAAAGAACCCTCTTCATTAAAGGATTAAAATGTATAGGCCAGC
ACGTGTAACCTTCGACTTCAAGATTTCTGAATCCATATGTAGTATGTTTCATTGTCGTCGCAGGGGTAGTGATCCT
GGCAGTCACCATAGCTCTACTTGTTTACTTTTTAGCTTTTGATCAAAAATCTTACTTTTATAGGAGCAGTTTTCA
ACTCCTAAATGTTGAATATAATAGTCAGTTAAATTCACCAGCTACACAGGAATACAGGACTTTGAGTGGAAGAAT
TGAATCTCTGATTACTAAAACATTCAAAGAATCAAATTTAAGAAATCAGTTCATCAGAGCTCATGTTGCCAAACT
GAGGCAAGATGGTAGTGGTGTGAGAGCGGATGTTGTCATGAAATTTCAATTCACTAGAAATAACAATGGAGCATC
AATGAAAAGCAGAATTGAGTCTGTTTTACGACAAATGCTGAATAACTCTGGAAACCTGGAAATAAACCCCTTCAAC
TGAGATAACATCACTTACTGACCAGGCTGCAGCAAATTTGGCTTATTAATGAATGTGGGGCCGGTCCAGACCTAAT
AACATTGTCTGAGCAGAGAATCCTTGGAGGCACTGAGGCTGAGGAGGGAAGCTGGCCGTGGCAAGTCAGTCTGCG
GCTCAATAATGCCACCCTGTGGAGGCAGCCTGATCAATAACATGTGGATCCTGACAGCAGCTCACTGCTTCAG
AAGCAACTCTAATCCTCGTGAAGTGGATTGCCACGTCTGGTATTTCCACAACATTTCTAAACTAAGAATGAGAGT
AAGAAATATTTTAATTCATAACAATTATAAATCTGCAACTCATGAAAATGACATTGCACCTTGTGAGACTTGAGAA
CAGTGTACCTTTACCAAAGATATCCATAGTGTGTGTCTCCCAGCTGCTACCCAGAATATTCCACCTGGCTCTAC
TGCTTATGTAACAGGATGGGGCGCTCAAGAATATGCTGGCCACACAGTTCCAGAGCTAAGGCAAGGACAGGTCAG
AATAATAAGTAATGATGTATGTAATGCACCACATAGTTATAATGGAGCCATCTTGTCTGGAATGCTGTGTGCTGG
AGTACCTCAAGGTGGAGTGGACGCATGTCAGGGTGACTCTGGTGGCCCCACTAGTACAAGAAGACTCACGGCGGCT
TTGGTTTATTGTGGGGATAGTAAGCTGGGGAGATCAGTGTGGCCTGCCGATAAGCCAGGAGTGTATACTCGAGT
GACAGCCTACCTTGACTGGATTAGGCAACAACTGGGATCTAGTGCAACAAGTCATCCCTGTTGCAAAGTCTGT
ATGCAGGTGTGCCTGTCTTAAATTCCAAAGCTTTACATTTCAACTGAAAAAGAACTAGAAATGTCCTAATTTAA
CATCTTGTTACATAAATATGGTTTAACAAACACTGTTTAACCTTTCTTTATTATTAAAGGTTTTCTATTTCTCC

780/2777
FIGURE 693

MYRPARVTSTSRFLNPYVVC FIVVAGVVILAVTIALLVYFLAFDQKSYFYRSSFQLLNVEYNSQLNSPATQEYRT
LSGRIESLITKTFKESNLRNQFIRAHVAKLRQDGSQVRADVVMKFQFTRNNNGASMKSRIESVLRQMLNNSGNLE
INPSTEITSLTDQAAANWLINECGAGPDLITLSEQRILGGTEAEEGSPWPQVSLRLNNAHHC GGSLINNMWILTA
AHCFRSNSNPRDWIATSGISTTFPKLRMRVRNIIHNHNYKSATHENDIALVRLNSVTFTKDIHSVCLPAATQNI
PPGSTAYVTGWGAQEYAGHTVPPELRQGQVRIISNDVCNAPHSYNGAILSGMLCAGVPQGGVDACQGDSSGGLVQE
DSRRLWFIVGIVSWGDCGLPDKPGVYTRVTAYLDWIRQQTGI

781/2777
FIGURE 694

TCGAATTCCGGAAGCCGCTCCCGACACCCTTTGCCTGGCTCTGTCCATATTAGTTCCCAGGCGGCCGTCGCGTTC
CAGCAGCGGCACGCAGCGCAGGCGGAGCGGCAGCGGGCCCTCGGCTCTATAGAGCCGAGCCGCTGGTACCCGCCC
GGTACCGCGCGAGCCAGTGCCCTGGATCTTGCCCTCTGCTCCGACGCCGTTCCCCACCAGTTAGCGACAGCGCCC
GCCCCTCTGAGGAGACACGAAGGTGGTTCCCCAGCCGCTCAAATTTCCGGACCACCGCGCTTTCCCCTCCTCAGC
CTGGGCTGTGCTCTCTCTAGAATCCTCGGGCCCCCACTTTCTTCCCAAACCTCATCTAAATCTCTCACACACGCG
AGTGTTCCCAGCCCTCAAGCCAGCTGCTCCTCCTCCGTTTCATTTTCTGCCCCTCTTCGCAAAGCACCCCGGGAT
CATCTCCGAGGGCGACTTTTTGAGAAATCTCGGTGGAGTAGTGGACCAGAGCAGGGGAGTTTTTAAAAGCCGGG
GCGCGAGAAACAGGAAGGTACTATCGGCTTCCTCGTCTGGCAACGATGATGATCTCACTATCCCCAGAGCTGCTAT
CAATAAAATGATCAAAGAGACTCTTCCTAATGTCCGGGTGGCCAACGATGCTCGAGAGCTGGTGGTGAAGTCTGCTG
CACTGAATTCATTACCTTATATCTTCTGAAGCCAATGAGATTTGTAACAAATCGGAAAAGAAGACCATCTCACC
AGAGCATGTCATACAAGCACTAGAAAGTTTGGGATTTGGCTCTTACATCAGTGAAGTAAAAGAAGTCTTGCAAGA
GTGTAAAACAGTAGCATTAAAAAGAAGAAAGGCCAGTTCTCGTTTGAAAACCTTGGCATTCTGAAGAAGAGTT
ATTGAGACAGCAACAAGAATTATTTGCAAAAGCTAGACAGCAACAAGCAGAATTGGCCCAACAGGAATGGCTTCA
AATGCAGCAAGCTGCCCCAACAAAGCCCAGCTTGCTGCTGCCTCAGCCAGTGCATCTAATCAGGCGGGATCTTCTCA
GGATGAAGAAGATGATGATGATATCTTGAAATTCACCAGCTGAGTTTCTATTTCTTCTATAAATGTTTTTCCCTGC
ACAACAAAACAGTGAAAGAAATGCTTATCTGTAATTTTGATGATCTTGGTGGACTTGTCTATTGGTATTCTAG
AGATGTCTGCTATAAGTTTCATCTGTTGTGTGCTATACATGTAAAACTGTCTCTTTGAACTATTGAAAATTTAA
GGTTCAGTATAATATCAATTTTGAATTTTCCCTGGTGTTTATGAAATTTTAGATAGCAGCAAGTCTTCGTTTGAT
CATAACAGTGACAGATAACTCAA

782/2777
FIGURE 695

MASSSGNDDDLTIPRAAINKMIKETLPNVRVANDARELVVNCCTEFIHLISSEANEICNKSEKKTISPEHVIQAL
ESLGFGSYISEVKEVLQECKTVALKRRKASSRLENLGIPEEELLRQQQELFAKARQQQAELAQQEWLQMQQAAQQ
AQLAAASASASNQAGSSQDEEDDDDI

783/2777
FIGURE 696

ACTGGTTTTGCGAGTGGAGGATGCAGTCTCTTTGTGGTTCCTGGTCCTGTTTGAGAACCTGGGGTCTTGAGGTGG
CCTGTCTGTGCCTCTCCTTTGTTTCGGCCTGGGCTGGGTGGTGCTTGTGAGCATTGCTCCAGGATCCGCAGACG
TTTCGGTGGTGACACCTGCCACGCACACGTGCCGCACTGGGGACCAGGAACAGGGATGAGTCAGGCACAGTCCTT
GCCTTCTGGGAGCTCATGGTCCAGAATTGAGGATTCCTCAACAGATGTCCCTTGAGCGCAGAGGATCTGGCAGC
CCCTTCTCAGGGGGCCGGGGCCACCAGATGTTGCATGCTGAGGGTATTTTACTTTAACACCCATGGTGTGTCTAG
GAGACTGAGGTTTCCCTGGTTTCATACTTGCTATCTTTCTCAGCTGTGCCTGTCCCCAGCCTGGAAGGATAGG
TCAGAAATCCTTCAAGGTAGCTGTTTCAGGAGATCTTTTCTGGCCCCAGGTCAAGTTCTCTTTGGTTCCGTCCT
GAGCTCATTACCTCCTGGTGAATCATCACACCATATTTATTGGACACCTACAGCTTGCTAAGCATTATATAGAGG
CCTGTCTTTGAGGAAAGGAAATTAAACAAGCCCTGTACAGATCCCCAAGATGAGAAGTAGCTTTAGTTGAGGCC
ACTGCTGCTCTTAGCTTCTCTGGCCCATCTATGCTTCTAGATGGAACGTGTGTTTAAAGATGCAGATTACAGGTGT
GAGCCACCACACCCAGCCCAGGCTCATTCTTTAACAGCCTTAGCGCAACTACTAATGCCACCAAGAGCGGACAG
GAAGGCCTGGGTCCCATCCCCCTTGCGAAGCCAGTAGGTGAAACATGGCAGCTTGGCCTGGTTCCACTTGTCATCGC
CTTTTGGTCTTCACAGTAATCCTCAGAGTGGCCCAGGTGGGTAGTTGGTTGGTTGGTTTTTTTTTTCAGACGGT
GTCTCGCTCTCTCGCCCAGGCTGGAGTGCAGTGGTGCACCTCGGCTCACTGCAACCTCTGTCTCCTGGGTTTTAA
GTGATTCTTCTTCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGTCATGTGCCACCACGCCCCGGCTAATTTTTT
GTATTTTTTAGTAGAGACGGGTTTCACCATATTGACCAGGCTGGTCTCGAACTCCTGACCTCATGATCTGCCCGCC
TCAGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCGGCCAACAGCGGGAAGTATTTTTTCCATTGAG
TAGATGAGCAGAATGAGACTCAAGGGTTGCTCAGATGGGCCGGGCATGGTGGCTCACGCCTGTAACCTCAGCAC
TGTGGGAGGCCAAGGGGGCAGATCACTTCAGGTTCGGGAGTTCCAGACCAGCCTGTTCAACATGGCGAAACCCCAT
TCTACCAAACTACAAAAATTAGCCGGGCTCACGCCTGAAATCCAGCACTTTGGGAGACTGAGGAGGGGTCACC
TGAGGTGAGGATGTCAAGATCAGACTGGCCAACAGAATGAAACCCTGTCTCTACAAAAATACAAAAATTAGGCCG
GGTGCCGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGCAGATCACAAGGTCAGGTGATCGA
GACCATCCTGGCTAACTTGGTGAAACCCTGTCTCTACTAAAAAAAATACAGAAAGTTAGCCGGGCGTGCCACC
TGTAGTCCCAGCTACTCTGGAGGCTGAAGCAGGAGAATGGCATGAACCCGGGTGGCGGCGCTTGCAGTGAGCTGA
GCTCCCACTGCACTCCAGCCTGGGCGACACAGCGAGATTTCCTATCTAAAAAAA

784/2777
FIGURE 697

MSQAQSLPSGSSWSRIEDSLNRCPLSAEDLAAPSQGAGAHRCMLRVFYFNTHGVSRRLRFPWFHTCYLSSRCAC
PQPGRIGQKSFKVAVSGDLFLAPGQVLFGSVLSSLPPGESSHHIYWTPTAC

CATGTCGGGGCTCCACACAGCTTTGTGGACACAGACGCTGAGCGGACCTAGAGCCCTACCCGCCCCACAGCCTTTC
CTACCCAGTGCAGATCGCCCGGACGCACACGGACGTCGGGCTCCTGGAGTACCAGCACCCTCCGCGACTATGC
CTCCACCTGTCGCGGGGCTCCATCATCCAGCCCCAGCGCGGAGGCCCTCCCTGCTGTCTGAGTTCCAGCCCGG
GAATGAACGGTCCAGGAGCTCCACCTGCGGCCAGAGTCCCACCTCATACCTGCCCCAGCTGGGGAAGTCAGAGAT
GGAGTTTCATTGAAAGCAAGCGCCCTCGGCTAGAGCTGCTGCCTGACCCCTGCTGCGACCGTCACCCCTGCTGGC
CACGGGCCAGCCTGCGGGATCTGAAGACCTCACCAAGGACCGTAGCCTGACGGGCAAGCTGGAACCGGTGTCTCC
CCCCAGCCCCCGCACACTGACCCTGAGCTGGAGCTGGTGCCGCCACGGCTGTCCAAGGAGGAGCTGATCCAGAA
CATGGACCGCTGGACCGAGAGATCACCATGGTAGAGCAGCAGATCTCTAAGCTGAAGAAGAAGCAGCAACAGCT
GGAGGAGGAGGCTGCCAAGCCGCCCGAGCCTGAGAAGCCCGTGTACCGCCGCCCATCGAGTCGAAGCACCGCAG
CCTGGTGAGATCATCTACGACGAGAACCGBAAGGCTGAAGCTGCACATCGGATTCTGGAAGGCCTGGGGCC
CCAGGTGGAGCTGCCGCTGTACAACCAGCCCTCCGACACCCGGCAGTATCATGAGAACATCAAAATAAACAGGC
GATGCGGAAGAAGCTAATCTTGTACTTCAAGAGGAGGAATCACGCTCGGAAACAATGGAAGCAGAAGTTCTGCCA
GCGCTATGACCAGCTCATGGAGGCCTTGGAAGGAGGCTGGAGCGCATCGAAACAACCCGCGCCGGCGGGCCAA
GGAGAGCAAGGTGCGCGAGTACTACGAAAGCAGTTCCCTGAGATCCGCAAGCAGCGCGAGCTGCAGGAGCGCAT
GCAGAGCAGGGTGGGCCAGCGGGGAGTGGGCTGTCCATGTCGGCCGCCCGCAGCGAGCACGAGGTGTGAGAGAT
CATCGATGGCCTCTCAGAGCAGGAGAACCTGGAGAAGCAGATGCGCCAGCTGGCCGTGATCCCGCCCATGCTGTA
CGACGCTGACCAGCAGCGCATCAAGTTCATCAACATGAACGGGCTTATGGCCGACCCCATGAAGGTGTACAAAGA
CCGCCAGGTTCATGAACATGTGGAGTGAGCAGGAGAAGGAGACCTTCCGGGAGAAGTTTCATGCAGCATCCCAAGAA
CTTTGGCCTGATCGCATCATTCTTGGAGAGGAAGACAGTGGCTGAGTGCCTCTCTATTACTACCTGACTAAGAA
GAATGAGAACTATAAGAGCCTGGTGAGACGGAGCTATCGGCGCCGCGGCAAGAGCCAGCAGCAACAACAGCAGCA
GCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCCATGCCCGCAGCAGCCAGGAGGAGAAAGATGAGAAGGAGAA
GGAAAAGGAGGCGGAGAAGGAGGAGGAGAAGCCGGAGGTGGAGAACGACAAGGAAGACCTCCTCAAGGAGAAGAC
AGACGACACCTCAGGGGAGGACAACGACGAGAAGGAGGCTGTGGCCTCCAAAGGCCGCAAACTGCCAACAGCCA
GGGAAGACGCAAAGGCCGCATCACCCGCTCAATGGCTAATGAGGCCAACAGCGAGGAGGCCATACCCCCAGCA
GAGCGCCGAGCTGGCCTCCATGGAGCTGAATGAGAGTTCTCGCTGGACAGAAGAAGAAATGGAACAGCCAAGAA
AGGTCTCCTGGAACACGGCCGCAACTGGTTCGGCCATCGCCCCGATGGTGGGCTCCAAGACTGTGTGCGAGTGTA
GAACTTCTACTTCAACTACAAGAAGAGGCAGAACCTCGATGAGATCTTGACAGCAGCACAAAGCTGAAGATGGAGAA
GGAGAGGAACGCGCGGAGGAAGAAGAAGAAAGCGCCGGCGGCGGCCAGCGAGGAGGCTGCATTCCCGCCCGTGGT
GGAGGATGAGGAGATGGAGGCGTCGGGCGTGAGCGGAAATGAGGAGGAGATGGTGGAGGAGGCTGAAGCCTTACA
TGCCTCTGGGAATGAGGTGCCAGAGGGGAATGCAGTGGCCAGCCACTGTCAACAACAGCTCAGACACCGAGAG
CATCCCTCTCCTCACACTGAGGCCGCCAAGGACACAGGGCAGAATGGGCCCAAGCCCCAGCCACCCTGGGCGC
CGACGGGCCACCCCCAGGCCACCCACCCACCACGGAGGACATCCCGGGCCCCATTGAGCCCACCCGGCCTC
TGAAGCCACCGAGCCCCCTACGCCCCACCAGCACCCCATCGCCCTCTGCACCTCCTCTGTGGTCCCCAAGGA
GGAGAAGGAGGAGGAGACCGCAGCAGCGCCCCCAGTGGAGGAGGGGAGGAGCAGAAGCCCCCGCGGCTGAGGA
GCTGGCAGTGGACACAGGGAAGGCCGAGGAGCCCGTCAAGAGCGAGTGCACGGAGGAAGCCGAGGAGGGGCGGCG
CAAGGGCAAGGACGCGGAGGCCGCTGAGGCCACGGCCGAGGGGGCGCTCAAGGCAGAGAAGAAGGAGGGCGGGAG
CGGCAGGGCCACCACTGCCAAGAGCTCGGGCGCCCCCAGGACAGCGACTCCAGTGCTACCTGCAGTGACAGCA
GGTGGATGAGGCCGAGGGCGGCGACAAGAACCGGCTGCTGTCCCCAAGGCCAGCCTCCTCACCCCGACTGGCGA
CCCCGGGGCCAATGCCTCACCCAGAAGCCACTGGACCTGAAGCAGCTGAAGCAGCGAGCGGCTGCCATCCCCC
CATCCAGGTACCAAAGTCCATGAGCCCCCCCCGGGAGGACGCAGCTCCACCAAGCCAGCTCCCCAGCCCCACC
GCCACCGCAAACCTGCAGCCGGAGAGCGACGCCCTCAGCAGCCTGGCAGCAGCCCCGGGGCAAGAGCAGGAG
CCCGGCACCCCCCGCCGACAAGGAGGCCTTCGACGCCGAGGCCCAGAAGCTGCCTGGGGACCCCCCTTGCTGGAC
TTCCGGCCTGCCCTTCCCCGTGCCCCCGCTGAGGTGATCAAGGCCTCCCGCATGCCCGGACCCCTCAGCCTT
CTCCTACGCTCCACCTGGTCACCACTGCCCTTGGGCTCCATGACACTGCCCGGCCGCTCCTGCCGCGCCACC
CACCATCTCCAACCGCCTCCCTCATCTCCTTGCCAAGCACCCAGCGTCCCTCGAGAGGCAAATAGGTGCCAT
CTCCAAGGAATGTGGTCCAGCTCCACGTCCCGTACTCAGAGCATGCCAAGGCCCGGTGGGCCCTGTACCAT
GGGGCTGCCCTGCCATGGACCCCAAAAAGCTGGCACCTTCAGCGGAGTGAAGCAGGAGCAGCTGTCCCCACG
GGGCCAGGCTGGGCCACCGGAGAGCCTGGGGGTGCCACAGCCAGGAGGCGTCCGTGCTGAGAGGGACAGCTCT

786/2777
FIGURE 698B

GGGCTCAGTTCCGGGCGGAAGCATCACCAAAGGCATTCCAGCACACGGGTGCCCTCGGACAGCGCCATCACATA
CCGCGGCTCCATACCCACGGCACGCCAGCTGACGTCTGTACAAGGGCACCATCACCAGGATCATCGGCGAGGA
CAGCCCCAGTCGCTTGGACCGCGGCCGGGAGGACAGCCTGCCCAAGGGCCACGTCTCTACGAAGGCAAGAAGGG
CCACGTCTTGTCTATGAGGGTGGCATGTCTGTGACCCAGTGCTCCAAGGAGGACGGCAGAAGCAGCTCAGGACC
CCCCATGAGACGGCCGCCCAAGCGCACCTATGACATGATGGAGGGCCGCGTGCGGCAGAGCCATCTCCTCAGC
CAGCATCGAAGGTCTCATGGGCCGTGCCATCCCGCCGGAGCGACACAGCCCCACCACCTCAAAGAGCAGCACCA
CATCCGCGGGTCCATCACACAAGGGATCCCTCGGTCTACGTGGAGGCACAGGAGGACTACCTGCGTCTGGGAGGC
CAAGCTCTAAAGCGGGAGGGACGCCTCCGCCCCACCGCCCTACGGGACCTGACCGAGGCCTACAAGACGCA
GGCCCTGGGCCCCCTGAAGCTGAAGCCGGCCCATGAGGGCCTGGTGGCCACGGTGAAGGAGGCGGGCCGCTCCAT
CCATGAGATCCCGCGCGAGGAGCTGCGGCACACGCCCGAGCTGCCCTGGCCCCGCGGCCGCTCAAGGAGGGCTC
CATCACGCAGGGCACCCCGCTCAAGTACGACACCGGCGCGTCCACCCTGGCTCCAAAAAGCACGACGTACGCTC
CCTCATCGGCAGCCCCGGCCGGACGTTCCACCCGTGCACCCGCTGGATGTGATGGCCGACGCCCGGGCACTGGA
ACGTGCTGTACGAGGAGAGCCTGAAGAGCCGGCCAGGGACCGCCAGCAGCTCGGGGGGCTCCATTGCGCGCGG
CGCCCCGCTCATTGTGCTGAGCTGGGTAAAGCCGCGGCAGAGCCCCCTGACCTATGAGGACCACGGGGCACCTT
TGCCGGCCACCTCCCACGAGGTTGCCCCGTGACCATGCGGGAGCCACGCCGCGCCTGCAGGAGGGCAGCCTTTC
GTCCAGCAAGGCATCCCAGGACCGAAAGCTGACGTGACGCGCTCGTGAGATCGCCAAGTCCCCGCACAGCACCGT
GCCCCGAGCACCCACACCCCATCTCGCCCTATGAGCACCTGCTTCGGGGCGTGAGTGGCGTGGACCTGTATCG
CAGCCACATCCCCCTGGCCTTCGACCCACCTCCATACCCCGCGGCATCCCTCTGGACGCAGCCGCTGCCTACTA
CCTGCCCCGACACCTGGCCCCCAACCCACCTACCCGACCTGTACCCACCCTACCTCATCCGCGGCTACCCCGA
CACGGCGGCGCTGGAGAACCGGCAGACCATCATCAATGACTACATCACCTCGCAGCAGATGCACCACAACACGGC
CACCGCCATGGCCAGCGAGCTGATATGCTGAGGGCCCTCTCGCCCCGCSAGTCTCTGCTGGCACTCAACTACGC
TGCGGGTCCCCGAGGCATCATCGACCTGTCCCAAGTGCCACACCTGCCTGTGCTCGTGGCCCCGACACCAGGCAC
CCCAGCCACCGCCATGGACCGCCTTGCCCTACCTCCCCACCGCGCCCCAGCCCTTCAGCAGCCGCCACAGCAGCTC
CCACTCTCCCCAGGAGGTCCAACACACTTGACAAAACCAACCACACGTCCTCGTCCGAGCGGGAGCGAGACCG
GGATCGAGAGCGGGACCGGGATCGGGAGCGGGAAAAGTCCATCCTCACGTCCACCACGACGGTGGAGCACGCACC
CATCTGGAGACCTGGTACAGAGCAGAGCAGCGGCAGCAGCGGCAGCAGCGCGGGGGTGGGGGCAGCAGACCGG
CCCCGCTCCCACTCCCATGCCCACCAGCACTCGCCCATCTCCCTCGGACCCAGGATGCCCTCCAGCAGAGACC
CAGTGTGCTTACAACACAGGCATGAAGGGTATCATCACCGCTGTGGAGCCAGCAAGCCACGGTCTCTGAGGTC
CACCTCCACCTCTCACCCGTTGCCCCAGCTGCCACATTCACACCTGCCACCCACTGCCCACTGGGCGGCACCTT
CGATGGGGTCTACCCTACCCTCATGGAGCCCGTCTTGCTGCCCAAGGAGGCCCCCGGGTTCGCCCCGCCAGAGCG
GCCCCGAGCAGACACCGCCATGCCTTCTCGCCAAGCCCCAGCCCCGCTCCGGGCTGGAGCCCGCCTCTCCCC
CAGCAAGGGCTCGGAGCCCCGGCCCCCTAGTGCTCCTGTCTCTGGCCACGCCACCATCGCCCCGACCCCTGCGAA
GAACCTCGCACCTCACCAGCCAGCCCGGACCCGCGGCGCCACCTGCCCTCGGCCTCGGACCCGACCCGGGAAAA
GACTCAAAGTAAACCTTTTTTCATCCAGGAACTGGAACCTCCGTTCTCTGGGTACCACGGCAGCAGCTACAGCCC
CGAAGGGGTGGAGCCCGTCAGCCCTGTGAGCTCACCCAGTCTGACCCACGACAAGGGGCTCCCCAAGCACCTGGA
AGAGCTCGACAAGAGCCACCTGGAGGGGGAGCTGCGGCCAAGCAGCCAGGCCCCGTGAAGCTTGGCGGGGAGGC
CGCCACCTCCACACCTGCGGCCGCTGCCTGAGAGCCAGCCCTCGTCCAGCCCGCTGCTCCAGACCGCCCCAGG
GGTCAAAGGTACACAGCGGGTGGTACCCCTGGCCCAGCACATCAGTGAGGTATCACACAGGACTACACCCGGCA
CCACCCACAGCAGCTCAGCGCACCCCTGCCCCGCCCCCTCTACTCCTTCCCTGGGGCCAGCTGCCCCGTCTGGA
CCTCCGCCGCCCCACCCAGTGACCTCTACCTCCCGCCCCCGGACCATGGTGCCCCGGCCCCGTGGCTCCCCCCACAG
CGAAGGGGGCAAGAGGTCTCCAGAGCCAAACAAGACGTCCGCTTGGGTGGTGGTGAGGACGGTATTGAACCTGT
GTCCCCACCGGAGGGCATGACGGAGCCAGGGCACTCCCGGAGTGCTGTGTACCCGCTGCTGTACCCGGATGGGGA
ACAGACGGAGCCCAGCAGGATGGGCTCCAAGTCTCCAGGCAACACCAGCCAGCCGCCAGCCTTCTTCAGCAAGCT
GACCGAGAGCAACTCCGCCATGGTCAAGTCCAAGAAGCAAGAGATCAACAAGAAGCTGAACACCCACAACCGGAA
TGAGCCTGAATACAATATCAGCCAGCCTGGGACGGAGATCTTCAATATGCCCGCCATCACCGGAACAGGCCTTAT
GACCTATAGAAGCCAGGCGGTGCAGGAACATGCCAGCACCACATGGGGCTGGAGGCCATAATTAGAAAGGCACT
CATGGGTAAATATGACCAAGTGGGAAGAGTCCCCGCCGCTCAGCGCCAATGCTTTTAACCTCTGAATGCCAGTGC
CAGCCTGCCCCGCTGCTATGCCCATACCGCTGCTGACGGACGGAGTGACCACACACTCACCTCGCCAGGTGGCGG

787/2777
FIGURE 698C

CGGGAAGGCCAAGGTCTCTGGCAGACCCAGCAGCCGAAAAGCCAAGTCCCCGGCCCCGGGCCTGGCATCTGGGGA
CCGGCCACCCTCTGTCTCCTCAGTGCACTCGGAGGGAGACTGCAACCGCCGGACGCCGCTCACCAACCGCGTGTG
GGAGGACAGGCCCTCGTCCGCAGGTTCCACGCCATTCCCCTACAACCCCCTGATCATGCGGCTGCAGGCGGGTGT
CATGGCTTCCCCACCCCCACCGGGCCTCCCCGCGGGCAGCGGGCCCCCTCGCTGGCCCCCACCACGCCTGGGACGA
GGAGCCCCAAGCCACTGCTCTGCTCGCAGTACGAGACACTCTCCGACAGCGAGTGACTCAGAACAGGGCGGGGGG
GGCGGGCGGTGTCAGGTCCAGCGAGCCACAGGAACGGCCCTGCAGGAGCGGGGCGGCTGCCGACTCCCCAACC
AAGGAAGGAGCCCCCTGAGTCCGCCTGCGCCTCCATCCATCTGTCCGTCCAGAGCCGGCATCCTTGCCTGTCTAAA
GCCTTAATAAGACTCCCGCCCCGGGCTGGCCCTGTGCAGACCTTACTCAGGGGATGTTTACCTGGTGCTCGGGA
AGGGAGGGGAAGGGGCCGGGGAGGGGGCACGGCAGGCGTGTGGCAGCCACACACAGGCGGCCAGGGCGGCCAGGG
ACCCAAAGCAGGATGACCACGCACCTCCACGCCACTGCCTCCCCCGAATGCATTTGGAACCAAAGTCTAAACTGA
GCTCGCAGCCCCCGCGCCCTCCCTCCGCCTCCCATCCCGCTTAGCGCTCTGGACAGATGGACGCAGGCCCTGTCC
AGCCCCCAGTGCGCTCGTTCCGGTCCCCACAGACTGCCCCAGCCAACGAGATTGCTGGAACCAAGTCAGGCCAG
GTGGGCGGACAAAAGGGCCAGGTGCGGCCTGGGGGGAACGGATGCTCCGAGGACTGGACTGTTTTTTTACACAT
CGTTGCCGCAGCGGTGGGAAGGAAAGGCAGATGTAAATGATGTGTTGGTTTACAGGGTATATTTTTTGATACCTTC
AATGAATTAATTCAGATGTTTTACGCAAGGAAGGACTTACCCAGTATTACTGCTGCTGTGCTTTTGATCTCTGCT
TACCGTTCAAGAGGCGTGTGCAGGCCGACAGTCGGTGACCCCATCACTCGCAGGACCAAGGGGGCGGGGACTGCT
CGTCACGCCCCGCTGTGTCTCCTCCCTCCCTCCCTTGGGCAGAATGAATTCGATGCGTATTCTGTGGCCGCCA
TTTGCGCAGGGTGGTGGTATTCTGTCATTTACACACGTCGTTCTAATTAAAAAGCGAATTATACTCCAAAAAAA
AAAAAAAAA

788/2777
FIGURE 699

MSGSTQLVAQTW RATEPRYPHSLSYPVQIARTHTDVGLLEYQHHSRDYASHLSPGSIIQPQRRRPSLLSEFQPG
NERSQELHLRPESHSYLPELGKSEMEFIESKRPRLELLPDPLLRPSPLLATGQPAGEDLT KDRLTGKLEPVSP
PSPPHTDPELELVPPRLSKEELIQNMMDRVDREITMVEQQISKLKKKQQQLEEEAAKPPEPEKPVSPPIESKHRS
LVQIIYDENRKKAEAAHRILEGLGPQVELPLYNQPSDTRQYHENIKINQAMRKKLILYFKRRNHARKQWKQKFCQ
RYDQLMEALEKKVERIENNPRRRAKESKVREYYEKQFPEIRKQRELQERMQSRVQGRGSGLSMSAARSEHEVSEI
IDGLSEQENLEKQMRQLAVIPPLYDADQQRIKF INMNGLMADPMKVYKDRQVMNMWSEQEKETFREKFMQHPKN
FGLIASFLERKTVAE CVLYYYLT KKNENYKSLVRRSYRRRGKSQQQQQQQQQQQQQQQMPRSSQEEKDEKEK
EKEAEKEEEKPEVENDKEDLLKEKTD DTSGEDNDEKEAVASKGRKTANSQGRRKGRITRSMANEANSEEAITPQQ
SAELASMELNESSRWTEEMETAKKGLLEHGRNWSAIARMVGSKTVSQCKNFYFNYKKRQNLDEILQQHKLKMEK
ERNARRKKKKAPAAASEEAFFPVVEDEEMEASGVSGNEEMVEEAEALHASGNEVPRGECSGPATVNNSSD TES
IPSPHTEAAKDTGQNGPKPPATLGADGPPPGPTTPPRRTSRAP IEPTPASEATGAPT PPPAPPSPSAPPPVVPKE
EKEETAAAPPVEEGEEQKPAAEELAVDTGKAEFPVKSECTEEAEEGPAKGKDAEAAEATAEGALKA EKKEGGS
GRATTAKSSGAPQSDSSATCSADEVDEAEAGGDKNRLSPRPSLLTPTGDPRANAS PQKPLDLKQLKQRAAAIPP
IQVTKVHEPPREDAAPT KPAAPPAPPPPPQNLQFESDAPQQPGSSPRGKSRSPAPPADKEAFAAEAQKLPGDPFCWT
SGLPFPVPPPREVIKASPHAPDPSAFSYAPP GHPLPLGLHDTARPVLP RPPTISNPPPLISSAKHPSVLERQIGAI
SQGMSVQLHVPYSEHAKAPVGPVTMGLPLPMDPKKLAPFSGVKQEQLSPRGQAGPPESLGVPTAQEASVLRGTAL
GSVPGG SITKGIPSTRVPSDAITYRGSITHGTPADVLYKGTITRIIGEDSP SRLDRGREDSLPKGHVIYEGKKG
HVLSYEGGMSVTQCSKEDGRSSSGPPHETAAPKRTYDMMEGRVGRAISSASIEGLMGRAIPPERHSPHHLKEQHH
IRGSITQGIPRSYVEAQEDYLRREAKLLKREGTPPPPPPSRDLTEAYKTQALGPLKLKPAHEGLVATVKEAGRSI
HEIPREELRHTEPLPLAPRPLKEGSITQGTPLKYDTGASTTGSKKHDVRS LIGSPGRTPFPVHPLDVMADARALE
RACYEESLSRPGTASSSGSIARGAPVIVPELGKPRQSPLTYEDHGAPFAGHLPRGSPVTMREPTPRLQEGSLS
SSKASQDRKLTSTPREIAKSPHSTVPEHHHPHISPYEHL LRGVSGVDLYRSHIPLAFDPTSIPRGIPLDAAAAYY
LPRHLAPNPTYPHLYPPYLIRGYPDTAALENRQTIINDYITSQQMHNTATAMAQRADMLRGLSPRESSLALNYA
AGPRGIIDLSQVPHLPVLVPPTPGTPATAMDRLAYLPTAPQPFSSRHSSSPLSPGGP THLT KPTTTSSSERERDR
DRERDRDREREKSILTSTTTVEHAPIWRPGTEQSSGSSGSSGGGGSSSRPASHSHAHQHSPISPRTDALQQR P
SVLHNTGMKGIIITAVEPSKPTVLRSTSTSSPVRPAATFPPATHCPLGGTLDGVYPTLM EPVLLPKEAPRVARPER
PRADTGHAFLAKPPARSGLEPASSPSKGSEPRPLVPPVSGHATIARTPAK

789/2777
FIGURE 700

ATGGCAGAGCAGT¹CGGACGAGGCCGTGAAGTACTACACCCTAGAGGAGATT²CAGAAGCACAACCACAGCAAGAGC³
ACCTGGCTGATCCTGCACCACAAGGTGTACGATT⁴TGACCAAATTTCTGGAAGAGCATCCTGGTGGGGAAGAAGTT⁵
TTAAGGGAACAAGCTGGAGGTGACGCTACTGAGAACTTTGAGGATGTCGGGCACTCTACAGATGCCAGGGAAATG⁶
TCCAAACATT⁷CATCATTGGGGAGCTCCATCCAGATGACAGACCAAAGTTAAACAAGCCTCCAGAACCT⁸TAAAGG⁹
CGGTGTTTTCAAGGAACTCTTATCACTACTATTGATTCTAGTTCCAGTTGGTGGACCAACTGGGTGATCCCTGCC¹⁰
ATCTCTGCAGTGGCCGTCGCCTTGATGTATCGCCTATACATGGCAGAGGACTGAACACCTCCTCAGAAGTCAGCG¹¹
CAGGAAGAGCCTGCTTTGGACACGGGAGAAAAGAAGCCATTGCTAACTACTTCAACTGACAGAAACCTTCACTTG¹²
AAAACAATGATTTTAAATATATCTCTTTCTTTTCTTCCGACATTAGAAACAAAACAAAAGAAGTGTCTTTCTG¹³
CGCTCAAATTTTTCGAGTGTGCCTTTTATTTCATCTACTTTATTTTGATGTTTCCTTAATGTGTAATTTACTTAT¹⁴
TATAAGCATGATCTTTTAAAAATATATTTGGCTTTTAAAGT¹⁵

790/2777
FIGURE 701

MAEQSDEAVKYITLEEIQKHNSKSTWLILHHKVYDLTKFLEEHPGGEEVLREQAGGDATENFEDVGHSTDAREM
SKTFIIGELHPDDRPKLNKPPEP

791/2777
FIGURE 702

AGCCTGTGACTTTCCTCCCTGGACAAAGGCATC**ATG**AGTTGTGAGATCTCTTGCAAATCTCGAGGAAGAGGAGGA
GGTGGAGGAGGATTCCGGGGCTTCAGCAGCGGCTCAGCTGTGGTGTCTGGTGGAGCCGGAGATCAACTTCCAGC
TTCTCCTGCTTGAGCCGCCATGGTGGTGGTGGCGGGGGCTTCGGTGGAGGCGGCTTTGGCAGTCGGAGTCTTGTT
GGCCTTGGAGGGACCAAGAGCATCTCCATTAGTGTGGCTGGAGGAGGTGGTGGCTTTGGCGCCGCTGGTGGATTT
GGTGGCAGAGGAGGTGGTTTTGGAGGCGGCAGCGGCTTTGGAGGCGGCAGCGGCTTTGGAGGTGGCAGCGGCTTC
AGTGGTGGTGGTTTTCGGTGGAGGCGGCTTTGGTGGAGGCCGCTTTGGAGGTTTTGGGGGCCCTGGTGGTGTGGA
GGTTTAGGGGGTCCCTGGTGGCTTTGGGCCTGGAGGATACCTGGTGGCATCCACGAAGTCTCTGTCAACCAGAGC
CTCCTGCAGCCTCTCAACGTGAAAGTTGACCCAGAGATCCAGAATGTGAAGGCCCAAGAGCGTGAGCAGATCAAA
ACTCTCAACAACAAATTTGCCTCCTTCATTGACAAGGTGCGGTTCTTGAGCAGCAGAACCAGGTGTTACAGACC
AAATGGGAGCTGCTACAACAATGAATGTTGGCACCCGCCCCATCAACCTGGAGCCCATCTTCCAGGGGTATATC
GACAGCCTCAAGAGATATCTGGATGGGCTCACTGCAGAAAGAACATCACAGAATTCAGAGCTGAATAACATGCAG
GATCTTGTGGAGGATTATAAGAAGAAGTATGAGGATGAAATCAATAAGCGCACAGCTGCTGAGAATGATTTTGTG
ACGCTTAAAAAGGACGTGGACAATGCCTACATGATAAAGGTGGAGTTGCAGTCCAAGGTGGACCTGCTGAACCA
GAAATTGAGTTTCTGAAAGTTCTCTATGATGCGGAGATATCCCAGATACATCAGAGTGTCACTGACACCAACGTC
ATCCTCTCCATGGACAACAGCCGCAACCTGGACTTGGATAGCATCATCGCCGAGGTCAAGGCCAGTATGAGGAG
ATCGCCAGAGGAGCAAGGAAGAAGCGGAGGCCCTGTACCACAGCAAGTATGAGGAGCTCCAGGTGACTGTCGGG
AGACATGGAGACAGCCTGAAAGAGATCAAGATAGAGATCAGCGAGCTGAACCGCGTGATCCAGAGGCTGCAGGGG
GAGATCGCACATGTGAAGAAGCAGTGTAAGAATGTGCAAGATGCCATCGCAGATGCCGAGCAGCGTGGGGAGCAT
GCCCTCAAGGATGCCAGGAACAAGTTGAATGACCTGGAGGAGGCCCTGCAGCAGGCCAAGGAGGACTTGGCGCGG
CTGCTGCGTGACTACCAGGAGCTGATGAACGTGAAGCTGGCCCTAGATGTGGAGATCGCCACCTACCGCAAACCTG
CTGGAGGGCGAGGAGTGAGGATGTCTGGAGACCTCAGCAGCAATGTGACTGTGTCTGTGACAAGCAGCACCATT
TCATCAAATGTGGCATCCAAGGCTGCCTTTGGAGGTTCTGGAGGTAGAGGGTCCAGTTCCGGAGGAGGATACAGC
TCTGGAAGCAGCAGTTATGGCTCTGGAGGCCGACAGTCTGGCTCCAGAGGCGGTAGTGGAGGAGGAGGTTCTATC
TCTGGAGGAGGATATGGCTCTGGCGGTGGTTCTGGAGGAAGATACGGATCTGGTGGTGGCTCTAAGGGAGGGTCC
ATCTCTGGAGGAGGATATGGCTCTGGAGGTGGAAAACACAGCTCTGGAGGTGGCTCTAGAGGAGGCTCCAGCTCT
GGAGGAGGATATGGCTCTGGAGGTGGGGGTCTAGCTCTGTAAAGGGTAGCTCAGGTGAAGCTTTTGGTTCCAGC
GTGACCTTCTCTTTTAGAT**TAA**AGATGAGCCCCCACCACCACCGACTCTCCAACCCAGACTCTCCCACTCCAGAA
TGTAAGAAGCCTGTCTCTGTACCTCTAACTGGCAGCAAGTTAAATTTTTGTCAATTTATCTCTGATGGCACTTTGAG
GGAAAAGAATGTCCACATACAGTTTTTTGAAAGATCTTCTCTCAAACCAAGTTAGTTAGAGCCAGTGACGCCTCTG
TGTTCTGGGGCGGAATCTGTGCTGTCTAGGTTTGTGCTTCTAGCCATGCCCATTCGCCCCCCCACCATGCCTCTT
TGCATTGCCATTTTCCAGATGTGTATTCTGTTGAGGACCCAGGCCCATCCAGGGATTTTCATCTCTAAGCCTGGC
AGTGCTGGGGGGAATGTGTTTCTGTGTATATAGCTCCTCTTGTCCACTCTGCTTTCGGAAGTGCTGTGGTCTGG
GGGTCTTCATAATAAACCTCATTGCA

792/2777
FIGURE 703

MSCQISCKSRGRGGGGGGFRGFSSGS AVVSGGSRRSTSSFSCLSRHGGGGGGFGGGGFGSRSIVGLGGTKSISIS
VAGGGGGFGAAGGFGRGGGGFGGGSGFGGGSGFSGGGFGGGGFGGGRFGGFGGPGGVGGLGGPGGFPGPG
GYPGGIHEVSVNQSLLOPLNVKVDPEIQNVKAQEREQIKTLNNKFASFIDKVRFLEQQNQVLQTKWELLQQMNVG
TRPINLEPIFQGYIDSLKRYLDGLTAERTSQNSELNNMQDLVEDYKKKYEDEINKRTAAENDFVTLKKDVDNAYM
IKVELQSKVDLLNQEIEFLKVLYDAEISQIHQSVTDNVLSDNSRNLDLDSIIAEVKAQYEEIAQRSKEEAEA
LYHSKYEELQVTVGRHGDSLKEIKIEISELNRVIQRLQGEIAHVKKQCKNVQDAIADAEQRGEHALKDARNKLND
LEEALQQAKEDLARLLRDYQELMNVKLALDVEIATYRKLLGEECRMSGDLSSNVTVSVTSSTISSNVASKAAGF
GSGGRGSSSGGYSSGSSSYGSGGRQSGSRGGSGGGGSISSGGYGSGGGSGGRYGSGGGSKGGSISGGGYGSGGG
KHSSGGGSRGGSSSGGYGSGGGSSSVKGSSGEAFGSSVTFSTR

793/2777
FIGURE 704

CCCAGATAAAAGGTAGGGGAGGAGGAGAGAGAGAGAAGGAAGAGTCTAGGCTGAGCAACATGAAGGGGGCCCCAA
CCTTCTGCAGCCTCCTGCTGCTGTCATTGCTCCTGAGCCCAGACCCTACAGCAGCATTCTACTGCCACCCAGCA
CTGCCTGCTGTACTCAGCTCTACCGAAAGCCACTCTCAGACAAGCTACTGAGGAAGGTCATCCAGGTGGAAGTGC
AGGAGGCTGACGGGGACTGTCACCTCCAGGCTTTCGTGCTTCACCTGGCTCAACGCAGCATCTGCATCCACCCCC
AGAACCCAGCCTGTCACAGTGTTTGAGCACCAAGAGAGAAAGCTCCATGGGACTCTGCCCAAGCTGAATTTTG
GGATGCTAAGGAAAATGGGCTTGAAGCCCCCAATAGCCAAATAATAAAGCAGCATTGGATAATAATTCTGAAAAA
AAAAAAAAAAAAAAAAAAAAA

794/2777
FIGURE 705

MKGPPTFCLLLLSLLLSPDPTAAFLLPSTACCTQLYRKPLSDKLLRKVIQVELQEADGDCHLQAFVLHLAQRS
ICIHPQNPSLSQWFEHQERKLHGTLPKLNFGMLRKMG

795/2777
FIGURE 706A

GCGGCGGTGGCGGCGACCGTCAGTTTTCGCTGAGGAGAAACACGAAACGGACCCCTTTGGCTCTCCCCCTTCCCCT
TCCCCGTCTGAACCCCTCTCCTGGTCACCGAGAATCAGTCCCCGTGGAGTTCCCCCTCCACCTCGCCATCGTTTT
CCTCGGTCTCTGGCCAGTGGAAGTCACTACCCTCGAGGAGGAGGCAGCGGCAGCCGCCCTCGCGTCGCCGCCCC
CGGTTCGGTGCCCCGGTCCCGGAGAGGAGGTGCCGCCGCCACCGCCGCTCCCCCTCCCGCTGCCCTCGGGCC
GGGCTGGGTGAGCTGCGATGCCCCCTCGGACTTCATCTCATTGCTCAGCGCGGACCTAGACCTGGAATCGCCCAAG
TCCCTCTACTCGCGAGAATCTGTCTATGATCTTCTCCCAAAGGAGTTACAGTTACCTCCATCTAGAGAAACATCT
GTAGCATCAATGAGTCAGACAAGCGGTGGTGAGGCAGGCTCGCCTCCTCCAGCTGTTGTTGCTGCTGATGCTTCT
TCAGCTCCCTCCTCTTCTCCATGGGCGGTGCTTGACGCTCCTTTACCACCTCTTCCAGCCCTACCATTATTCT
ACCTCAGTCACCGACAGCAAGGCTATGCAAGTGGAGAGCTGCTCCTCAGCCGTGGGGGTAAAGTAACAGAGGGGTA
AGTGAAGAGCAGTTAACCAGTAACACAGTTCAGCAGCATCCATCAACACCGAAGAGGCACACAGTCTTGATCATC
TCACCACCACCTGAGGACTTGCTGGATAACAGTCGGATGTCCTGCCAGGATGAGGGGTGTGGATTGGAATCTGAG
CAGAGCTGCAGTATGTGGATGGAGGATTCCTCCCTCAACTTCAGTAACATGAGCACCAGTTTCTACAATGATAAC
ACTGAGGTACCTCGTAAATCACGAAAACGAAATCCAAAGCAGAGGCCGGGGGTCAAACGACGAGATTGTGAAGAA
TCTAATATGGATATATTTGATGCCGACAGTGCCAAAGCACCTCACTATGTGCTTTCTCAGCTTACCACGGACAAC
AAAGGCAACTCAAAGCGGGAAATGGAACATTGGAACACCAAAAGGAAGTGGAGTAAAGAAGAGCCCTATGTTG
TGTGGACAATATCCTGTTAAAAGTGAGGGAAAGGAGCTGAAGATAGTTGTACAACCTGAGACACAGCACCAGCT
CGGTACCTGACTGAGGGCAGCCGTGGCTCAGTGAAAGATAGAACACAGCAAGGCTTTCTACAGTAAAGCTGGAA
GGCCATAATGAACCTGTAGTGTGCAAGTGTGTTGTTGGGCAACGACTCTGGACGAGTGAAACCACATGGATTTAT
CAGGCCTGCAGAGTAACTGGACGAAATACAACCTCCTTGCAAAGAGTGACATTGAAGGCACTACTGTTATAGAA
GTCGGCCTTGATCCTAGCAACAACATGACACTGGCGGTGGACTGCGTAGGGATATTGAAATTGAGGAATGCTGAT
GTCGAAGCCAGAATAGGAATTGCTGGTTCCAAGAAGAAAAGCACTCGTGCCAGATTGGTTTTTTCAGTTAATATC
ATGAGGAAAGATGGCTCCACTTTGACACTGCAAAACACCTCTTCTCCAATTTTGTGTACTCAGCCAGCAGGAGTG
CCAGAAATCTTAAAGAAAAGCTTGATAGCTGTTTCAAGTGAAGGAGAAGAAGAGTGTGTTTAAATCGGCAAGAAC
TTTCTGAAAGGAACTAAAGTTATTTTCCAAGAAAATGTTTCTGATGAAAACCTTTGGAAGTCAGAAGCTGAAATT
GATATGGAATATTTTATCAGAAATCATCTTATTGTGAAGTTTCTCCCTATCATGACCAACATATAACTTTGCCT
GTGTCAGTGGAATATATGTAGTGACAAATGCTGGAAGATCTCATGATGTTCAACCATTCACTTACACTCCAGAC
CCAGCAGCAGCTGGTGCTTTGAATGTAAATGTGAAGAAGGAAATATCTAGTCCAGCAAGACCTTGCTCTTTTGAA
GAGGCCATGAAAGCAATGAAACTACTGGATGTAATTTAGATAAGGTAAATATTATCCCTAATGCCCTGATGACT
CCACTCATACCAAGCAGTATGATTAAGAGTGAAGATGTTACTCCAATGGAAGTAACAGCAGAAAAAAGATCTTCC
ACTATTTTAAAGACTACAAAGTCTGTTGGATCAACTCAGCAAAACATTAGAAAACATCTCAAACATAGCAGGAAAT
GGCTCTTTTTCATCACCATCATCTTCCACCTACCTTCTGAAAATGAAAAACAGCAGCAGATTTCAGCCCAAGGCA
TACAACCCAGAGACCTTGACAATATTCAAACCCAGGACATCTCACAGCCTGGTACTTTTCCAGCAGTTTCTGCT
TCTAGTCAGCTGCCCAACAGCGATGCACTATTGCAGCAGGCTACACAGTTTCAGACAAGAGAACTCAGTCTAGA
GAGATATTACAGTCAGATGGTACAGTGGTTAATTTGTCAAACTGACTGAGGCATCACAACAACAGCAGCAGTCA
CCACTACAAGAACAAGCACAGACTTTACAGCAGCAGATTTTATCAAATATTTTCCATCACCAAATAGTGTGAGT
CAGCTTCAGAATACTATTTCAGCAGCTGCAAGCAGGGAGTTTACAGGCAGTACTGCTAGTGGCAGCAGTGGAAGT
GTTGACTTGGTCCAACAAGTTTTAGAGGCACAGCAGCAGTTATCTTCAAGTTTTATTTTCTGCTCCAGATGGTAAT
GAGAATGTTCAAGAGCAGCTTAGTGAGATATTTTCAACAAGTCAGTCAAATTCAGAGTGGTGTAAGCCCTGGA
ATGTTTTTCTCAACAGAGCCCAACAGTCCATACCAGACCAGATAATTTATTACCTGGAAGAGCTGAAAGTGTTTAT
CCACAGTCTGAAAACACGTTATCTAATCAACAGCAGCAGCAGCAGCAACAGCAAGTGATGGAATCTTCAGCC
GCAATGGTGATGGAGATGCAACAGAGTATCTGCCAGGCAGCTGCCAGATTTCAGTCAGAGTTATTCCCTTCAACT
GCTTCAGCAAATGGAACCTTCAGCAATCGCCAGTTTACCAGCAGACTTCTCATATGATGAGTGCATTGTCTACC
AATGAGGATATGCAAATGCAGTGTGAATTGTTTTCTTCTCCTCCTGCAGTTTCTGGAAATGAACTTCTACAAC
ACCACACAGCAGGTTGCAACCCCTGGCACTACCATGTTTTCAGACATCAAGTTTCAGGAGATGGAGAAGAACTGGA
ACACAAGCAAAACAGATTTCAGAACAGTGTCTTTCAGACCATGGTCCAAATGCAACATAGTGGGGACAATCAACCT
CAAGTTAACCTTTTTTTCATCCACAAAAAGTATGATGAGTGTTCAGAATAGTGGTACCCAACAACAAGGTAATGGT
TTATTCCAGCAAGGGAATGAGATGATGTCACTTCAATCTGGAATTTTTTGCAGCAGTCTTCTCATTACAGGCC
CACTTTTTTATCCTCAAATCCTATTGCCGATGCTCAGAACCTTCCAGGAACTCAAGTTCTCTCTTTTAT

796/2777
FIGURE 706B

AGTCCAAATCCTATTGTCCACAGTCAGACTTCTACAACCTCCTCTGAACAAATGCAGCCTCCAATGTTTCACTCT
CAAAGTACCATTGCTGTGTTACAGGGCTCTTCAGTTCCTCAAGACCAGCAGTCAACCAACATATTTCTTTCCCAG
AGTCCCATGAATAATCTTCAGACTAACACAGTAGCCCAAGAAGCATTTTTTGCAGCACCAGCACTCAATTTCTCCA
CTTCAGTCAACATCAAACAGTGAACAACAAGCTGCTTTCCAACAGCAAGCTCCAATATCACACATCCAGACTCCT
ATGCTTTCCCAAGAACAGGCACAACCCCGCAGCAGGGTTTATTTTCAGCCTCAGGTGGCCCTGGGCTCCCTTCCA
CCTAATCCAATGCCTCAAAGCCAACAAGGAACCATGTTCCAGTCACAGCACTCAATAGTTGCCATGCAGAGTAAC
TCTCCATCCCAGGAACAGCAGCAGCAGCAACAGCAGCAGCAACAGCAGCAGCAACAACAACAGAGCATTTTA
TTCAGTAATCAGAATACCATGGCTACAATGGCGTCTCCAAAGCAACCACCACCAACATGATATTCAACCCAAAT
CAAAATCCAATGGCTAATCAGGAGCAACAGAACCAGTCAATTTTTACCAACAAAGTAACATGGCCCCAATGAAT
CAAGAGCAACAGCCCATGCAATTTTCAGAGTCAGTCCACAGTTTCCTCACTTCAGAACCCAGGTCTTACCCAGTCG
GAATCATCACAGACCCCCCTTGTTCCATAGCTCTCCTCAGATTTCAGTTGGTACAAGGGTCACCTAGTTCTCAAGAG
CAGCAAGTAACTCTCTTCTTATCTCCAGCATCCATGTCTGCCTTGAGACCAGTATAAATCAACAAGATATGCAA
CAGTCTCCTCTTTATTCCCCTCAGAACAACATGCCTGGAATTCAAGGAGCCACATCTTCGCTCAACCACAGGCT
ACTTTATTTTACAACACAGCAGGAGGCACAATGAACCAACTGCAGAATTCTCCTGGCTCATCTCAGCAGACATCA
GGAATGTTCTTATTTGGCATTCAAATAACTGTAGTCAGCTTTTAACCTCTGGACCAGCTACATTGCCTGATCAG
TTGATGGCCATAAGTCAGCCAGGCCAACCAAAAACGAGGGCCAGCCACCTGTGACAACACTTCTTTCTCAGCAA
ATGCCAGAGAATTCTCCACTGGCATCCTCTATAAACACCAACCAGAACATCGAAAAGATTGATTTGCTTGTTC
TTGCAAAACCAAGGGAACAACCTTGACTGGCTCCTTTTAACTGGATATAAATTCACGAAGAAAATCCTGATTCCA
AGATGTCCTGAGATCTTGTGGTTCCATGAGAATTATTACTTTAAAAACAAAACAAAATATAAAAACTGTGTTTG
AGTAACTGATAGATTTTACTCTGACTGCAAAAGAGCACACCTATGCTGCTTGTGTCAGTAACTAACCACCAATG
TTAACATCTTCATATTTTATATTCTTAATAACAGTGATGACTGAGAATCTATTTGAGTTTCCAGCTGGCAGAATT
AATTGTTATTATTTTCTAGGCGCAATTTCTTAAACGTACAGTTTAAATTCAAGGCTGGACCCTCAGTTATTA
TTGCTATTAGAAAATAATATATCATGTTTACTTTTGTCTTTCATTATTTTCTTTCTGCATTGTTTTAGTCAAGT
AATGGCTTTTGAAAAAGTAAAGTTCAATAATAACTAAGGCTGTGATTTTTTTCAATATAAAAGGCACAGCTGTTG
GCCAAAGTGAAGGAATCTTTTTTTCAGTTTTATTGGAGAACTGAAGGGTAACATTCTAACAAGTAACTGTATGT
GCAGATAAAAGTACTCTTGATTTAACACAAAGGCAGATGATACACTTATAAACTGGGAACAGCTGGAATGCTTC
TTGATTTTATTTTTTTCAGAGAGTTGTTAGTTCTCTGGGTTTCTACTAAGGGGTTTAGCCATAACTGTGCATAGAA
AAATAATTATCTGTAAAAAATGAAGGGGATAATATATGATAAATTATGTTCTGATATCCTCCTACAGTAGTTTAA
ATTGACAGAAAAATTTGAATGTTTTCTTCTTAACCCAGTCTTAGGCTGGTATTCCTTTTTATATATATCTATAT
TACTTTTCACCTCTTTTTCACTTTACTTTAGAGAATAATTAATATACTACTGGCTTCATGACCTGTAGCATCTT
TGGCCACTTTAATCTAGGGTGACCTAGCAATCCTGCAGCACAGGGCAGAGAGTACTGTCTTAGGAATTATTAGGA
GTTGATTCCTGAGAAACAACACATTTTTCCCATGAACGGTGCTGTTCTGAAGTCTTCAAATTTTTCCCTCTAAT
AGGAAACAGTATAAATTTT

797/2777
FIGURE 707

MPSDFISLLSADLDLES PKSLYSRESVYDLLPKELQLPPSRET SVASMSQTS GGEAGSPPPAVVAA DASSAPSSS
SMGGACSSFTTSSSP TIYSTSVTDSKAMQVESCSSAVGVS NRGVSEKQLTSNTVQQHPSTPKRHTVLYISPPPED
LLDNSRMSCQDEGCGLESEQSCSMWMEDSPSNFSNMSTSSYNDNTEVPRKSRKRNP KQRP GVKRRDCEESNMDIF
DADSAKAPHYVLSQLTTDNKGNSKAGNGTLENQKGTGVKKSPMLCGQYPVKSEGKELKIVVQPETQHRARYLTEG
SRGSVKDRTQQGFPTVKLEGHNEPVVLQV FVGND SGRVKPHGFYQACRVTGRNTTPCKEVDIEGTTVIEVGLDPS
NNMTLAVDCVGILKLRNADVEARIGIAGSKKKSTRARLVFRVNIMRKDGSTLTLQTPSSPILCTQPAGVPEILKK
SLHSCSVKGE EEFVLIGKNFLKGTKVIFQENVSDENSWKSEAEIDMELFHQNH LIVKVPPYHDQHITLPVSVGIY
VVTNAGRSHDVQPFTYTPDPAAGALNVNVKKEISSPARPCSFEEAMKAMKTTGCNLDKVNII PNALMTPLIPSS
MIKSEDVTPMEVTAEKRSSTIFKTTKSVGSTQQTLENISNIAGNGSFSSPSSSHLPSENEKQQQIQPKAYNPETL
TTIQTQDISQPGTFPAVSASSQLPNSDALLQQTQFQTRETQSREILQSDGTVVNLSQLTEASQQQQQSP LQEQQA
QTLQQQISSNIFPSPNSVSQ LQNTIQQLQAGSFTGSTASGSSGSVDLVQQVLEAQQQLSSVLF SAPDGNENVQEQ
LSADIFQQVSQIQSGVSPGMFSSSTEPTVHTRPDNLLPGRAESVHPQSENTLSNQQQQQQQQQVMESSAAMVMEM
QQSICQAAAQIQSELFPSTASANGNLQQSPVYQQTSHMMSALSTNEDMQMQCELFSSPPAVSGNETSTTTTQQVA
TPGTTMFQTSSSGDGEETGTQAKQIQNSVFQTMVQM QHSGDNQPQVNLFSSTKSMMSVQNSGTQQQGNGLFQQGN
EMMSLQSGNFLQQSSHSQAQLFHPQNP IADAQNLSQETQGS LFHSPNP IVHSQTSTTSSEQM QPPMFHSQSTIAV
LQGSSVPQDQQSTNIFLSQSPMNNLQTNTVAQEAFFAAPNSISPLQSTSNSEQQA AFQQQAPISHIQT PMLSQEQ
AQPPQQGLFQPQVALGSLPPNMPQSQQGTMFQS QHSIVAMQSNSPSQEQQQQQQQQQQQQQQQQSILFSNQNT
MATMASPKOPPPNMI FNPQNPMANQEQQNQSI FHQQSNMAPMNQEQQPMQFQSQSTVSSLQNP GPTQSESSQTP
LFHSSPQIQLVQGS PSSQEQQVT LFLSPASMSALQTSINQQDMQQSPLYSPQNNMPGIQGATSSPQPQATLFHNT
AGGTMNLQNSPGSSQQTS GMFLFGIQNNCSQLLTSGPATLPDQLMAISQPGQPQNEGQPPVTTL LSQQMPENSP
LASSINTNQNI EKIDLLVSLQNGNNLTGSF

798/2777
FIGURE 708

CGTGCA~~CCCT~~GAGCCGGAGCTGCCCAGTCGCCGCGGGACCGGGGCCGCTGGGGTCTGGACGGGGGTGCCCATGAT
CCGCTTTATCCTCATCCAGAACCGGGCAGGCAAGACGCGCCTGGCCAAGTGGTACATGCAGTTTGATGATGATGA
GAAACAGAAGCTGATCGAGGAGGTGCATGCCGTGGTCACCGTCCGAGACGCCAAACACACCAACTTTGTGGAGGT
CTTAAACGAATATTTCCACAATGTCTGTGAACTGGACCTGGTGTCAACTTCTACAAGGTTTACACGGTCGTGGA
CGAGATGTTCCCTGGCTGGCGAAATCCGAGAGACCAGCCAGACGAAGGTGCTGAAACAGCTGCTGATGCTACAGTC
CCTGGAGTGAGGGGCAGGCGAGCACCCACCCCGGCCCCGGCCCCCTCCTGGAATCGCCTGCTCGCTTCCCCTTCCC
AGGCCCGTGGCCAACCCAGCAGTCCTTCCCTCAACTGCCTAGGAGGAAGGGACCCAGCTGGGTCTGGGCCACAAG
GGAGGAGACTTCACCCCACTTCCCTCTGGGCCCTGGCTGTGGGCAGAGGCCACCGTGTGTGTCCCGAGTAACCGTG
CCGTTGTGCTGTGATTCCATAAGCGTCTGTGCGTGGAGTCCCCAATAAACCTGTGGTCCTGCCTGGC

799/2777
FIGURE 709

MIRFILIQNRAGKTRLAKWYMQFDDDEKQKLIEEVHAVVTVRDAKHTNFVEVLNEYFHNVCELDLVFNFYKVYTV
VDEMFLAGEIRETSQTKVLKQLLMLQSLE

800/2777
FIGURE 710

CCAACTTATTTAAAACAAAACAATTTTGTAGGTATTATTATACCCATTTTCACAGATGATGATAAATGAGACCAAT
AGAAGTTAAATAACTTGCCAAAGGCCACACAGCTGGTGAGTGATGGAGAACGAATTAAAACTCAAGTGAGCATAA
TTCTAAAAGCCATCTTCTCGTTAGTGTCTTCTACTATCCAGGTCTGCCTTTGCCTTATTTAACTGAAGTTAAGCC
ATCCTTACCTGTGATCACCTAGCCTCTCAGTTTGGGGGATCATTACAGCGGGTTTTTAACTCCCAATGTTCTGG
TCCAGTTTGCTTTACATGTTCTTATTTATACATTGTCAAGGATGACCTCAGGACAGTACAGCAAGGACACAGTGG
CACTTCACATTTTGTTCACGAAATGACTGGGGCATAATCTCAGATCATCTTCCTTTAGAATGTGGAAACATCA
GCAGAAGAATATTAGTCTTTATACAAGTCAAATCCAAAATGACACATGTGAAAACTAATAGAGCTGACTTTCAGC
CATGATAGCTTTGGCACACCTCACATCCCTTTGTTCAACCTCTCTTCCCTCAACGGAGAGCTGCATTCTCGGGAA
TTTCTGTTGTGCACTTTTCCCACTTGCCCTGCTGTCAATTTAAAGGTGAACATTCTAGTTTTGCTAAGAAAACCTT
TTCCTTCATTTGGAAATGAACAGCAATTTTATTACTTTTGACCTTAAATGAGTTTGCTGCCTTCAAATCTTTTCA
GCGCTTCATCACGCTCTGCTTCGGGGCGATCTTCTTCCCTGCCAGACTCCTCCAAGCTGCTCAGCGGGGTCTGT
TCCACTCCAGCCCCGCTTGAGCCGGCCGCCAGCACAAAGCCCCGGGGCGCGCGCCGAGGACGCGGGCCG
AGGGGCGAGCCCCGCGCGCGAGGAGGGGGCACCCGGGGACCCGGAGGCCCTGGAGGACAACCTTGGCCAGGA
TCCGCGAAAAACCACGAGCGGGCTCTCAGGGAAGCCAAGGAGACCCTGCAGAAGCTGCCCGAGGAGATCCAAAGAG
ACATCCTACTGGAGAAGAAGAAGGTGGCCCAGGACCAGCTGCGTGACAAGGCGCCGTTTCAAGAGCCTGCCCCCGG
TGGACTTCGTGCCCCCAATCGGGGTGGAGAGCCGGGAGCCCGCCGACGCCCATCCGCGAGAAAAGGGCAAAGA
TCAAAGAGATGATGAAACATGCTTGGAAATAATTATAAAGGTTATGCCTGGGGATTAAATGAACTCAAACCTATAT
CAAAAGGAGGCCATTCAAGCAGTTTGTGTTGGTAACATCAAAGGAGCAACTATAGTAGATGCCCTGGATACACTTT
TTATTATGGAATGAAACATGAATTTGAAGAAGCAAATCATGGGTTGAAGAAAATTTAGATTTTAAATGTGAATG
CTGAAATTTCTGTCTTTGAAGTAAATATACGCTTTGTTGGTGGACTACTCTCAGCCTACTATCTGTCTGGAGAAG
AGATTTTTTCGAAAGAAAGCAGTGGAACTTGGGGTAAATTTGCTACCTGCATTTTCACTCCCTCTGGAATACCTT
GGGCATTGCTGAATATGAAAAGTGGTATTGGAAGGAAGTGGCCCTGGGCCCTCTGGAGGCAGCAGTATTCTGGCAG
AATTTGGAACCCCTGCATTTGGAGTTTATGCACTTGAGCCACTTATCAGGAAACCCCATCTTTGCTGAAAAGGTAA
TGAATATTGGAACAGTACTGAACAAACTGGAAGAAACCACAAGGCCTTTATCCTAACTATCTGAATCCCAGTAGTG
GACAGTGGGGTCAACATCATGTATCAGTTGGAGGACTTGGAGACAGCTTCTATGAGTATTTGCTGAAGGCCTGGT
TAATGTCTGACAAGACAGATCTGGAAGCTAAGAAGATGTATTTTGATGCTGTTTCAAGGCTATCGAGACTCATTGA
TCCGCAAGTCTAGCAGCGGACTAAGTTATATCGCAGAGTGGAAAAGGGGCTCCTGGAGCACAAGATGGGGCCACC
TGACCTGCTTCGCGGGGGGCGATGTTTCGCACTCGGGGCTGATGCAGCTCCCGAAGGCATGGCCCAACACTACCTTG
AACTCGGGGCTGAAATTGCCCCGTACTTGTATGAATCATATAATCGAACATTTATGAACTGGGACCAGAAGCTT
TCAGATTTGATGGTGGTGTGTAAGCCATCGCTACAAGACAAAATGAAAAATACTACATCTTACGGCCAGAAGTTA
TGGAGACTTACATGTATATGTGGAGACTGACTCATGATCCAAAGTACAGGAAATGGGCCTGGGAAGCCGTAGAGG
CCTTGGAAGAACCATTCAGAGTGAATGGAGGCTATTGAGGCCTAAGGGATGTTTACCTTCTTCATGAGAGTTATG
ATGATGTGCAGCAGAGTTTCTTCCGGCAGAGACATTGAAATATTTGTACCTAATATTTTCTGACGACGATCTTC
TTCCACTGGAGCATTGGATCTTCAATAGCGAGGCACATCTTCTCCCTATCCTCCCTAAAGATAAAAAAGGAAGTTG
AAATCAGAGAGGAATAAAAAGACATTTATATTTTATTCTGCTCCATTCCCTTCACTGTATACCTTAATAATTCC
TTTTCTGGTAATCAGGCACATGATGAACCTTTGATTAGTAGGTCTGTGATTAAGTTCTTAAATTTGTTTTGCAGTCT
TTTATGTTTATTTATCATAGGTATAGGTGGACCTAAATTCCTTATCATATCTTTATTAATTCAGCCAGTGTATCCA
CCAGTTTTTTGTTTATGTTTTTAAGTAACCTATTATCTCTGGATTTTCATGAAGGTGTAATATCGTTTTTGTAAA
CTGAATAGAATTGTATAGCGATGACCTCTTAATTATAATTTGATTTGACTGCAAAACTTTTTCTCCTCTAAGAG
GAGATGATGTCTGCTTTAAGCTGTAATGTTTTGCCATGTTGCAAAAAGCCATAATAATAAGTATAAAAAAGCTTT
TTCCTTTACAATTTTCATGTTAATCTGGTTTTGTCGTGTCACCAGAGACAGATCTTCTGTGACAGCCTCCTTATGCA
GGTCTATCATTATTTGATAGAATGTCTTCTAAAATACTTCACTCACATTGTAATTCAAATTAGAAAGTCATTCCA
AAAGGTCATGTCATGTTGACCTCATTTTCATCGGAAGTGCAGTATATTTTTGTTGGTTAATTATATTAGTGTTC
TATTTTGAAAAA

801/2777
FIGURE 711

MNSNFITFDLKMSLLPSNLFSAFITLCFGAIFFLPDSSKLLSGVLFHSSPALQPAADHKPGPGARAEDAAEGRAR
RREGAPGDPEAALEDNLARIRENHERALREAKETLQKLPEEIQRDILLEKKKVAQDQLRDKAPFRGLPPVDFVP
PIGVESREPADAAIREKRAKIKEMMKHAWNNYKGYAWGLNELKPI SKGGHSSSLFGNIKGATIVDALDTLFIMEM
KHEFEEAKSWVEENLDFNVNAEISVFEVNIRFVGGLLSAYYLSGEEIFRKKAVELGVKLLPAFHTPSGIPWALLN
MKSGIGRNWPWASGGSSILAEFGTLHLEFMHLSHLSGNPIFAEKVMNIRTVLNKLKPKQGLYPNYLNPSSGQWGQ
HHVSVGGLGDSFYEYLLKAWLMSDKTDLEAKKMYFDAVQAIETHLIRKSSSGLTYIAEWKRGLLEHKMGHLTCFA
GGMFALGADAAPEGMAQHYLELGAEIARTCHESYNRTFMKLGPEAFRFDGGVEAIATRQNEKYIILRPEVMETYM
YMWRLTHDPKYRKWAVEAVEALENHCRVNGGYSGLRDVYLLHESYDDVQQSFFLAETLKYLILIFSDDDLLPLEH
WIFNSEAHLPLPKDKKEVEIREE

802/2777
FIGURE 712

ATGAGTGTGGCAAAGCCTTTGGCAAGCAGTCAACACTTATTCACCATCAGGCAATTCATGGTGTAGGGAAACTTG
ACTAATGTAATGATTGTCACAAAGTCTTCAGTAATGCTACAACGATTACAAATCATTGGAGAATCCATAATGAAG
AGAGATCTTACAAGTGTAATAAATGTGGCAAATTTTTTCAGAGATCGTTCACATATTGCAGGTCATCGGTGAACTC
ATACTGGAGAGAAACCTTACAAATGTCATGACTGTGCCAAGGTCTTCAGTCAAGCTTCATCCTATGCAAAACATA
GGAGAATTTATACAGGAGAGAAACCTCACAAAGTGTGATGATTGTGGCAAAGCCTTTGCTTCACGTTACACAGTCA
TTAGACATCAGAGAATCTATACTGGACAGAAATCTTACAAATGTCATCAGTGTGGCAAGGTCTTCAGTCCAAGAT
CACTCCATGCAGAACATCAGAAAATTCATTTTTGAGATAACCGTTCCTCAATGAAATGAGTATAGCAAACCATCAA
GCATTAATTGACATTGGAGTCAATTCAGCATTGACTTGAGTTTGTGTTGACTTAACATTGAGTTCAAGCCTTTAT
TGACATTCAAGTGTTTATGTTAAGAGGATGGGGCCAGGTGTGGTGGCTCCGACCTGTAATCCCAGCACGTCGGGA
GGCCAAGGCACATAGGTCACTTGAGGTGAGGAGTTTGAAACCAGCATGGCCAACAGATGTGAGCCACTTTTCTCA
GCCTGTTTTTTGTTTCTTATTTTCTATTATTTTTTTGAGCCAGTACTTTTTTAAAGAGATAGTACTTTTTTTCAGTT
AGTACTTTTTTGAAAGGGATATATCATAGTAATTTTTTAAAGGGATATGAGGCCAGGCACGGAGGCTCATGCCTGT
AATCCCAGCACTTTGGGAGGCCGAGGCAGGCAGATCACGGGGTCAGGAGATCGAGACTTTCCTGGCTAACAGGGT
GAATCCCTGTCTCTACTAAAAATACAAAAAATTAGCTGGGCATGGTGGCTGGCGCCTGTAGTCCCAGCTACTCCA
GATGCTGAGGCAGGAGAATGGCATGAACCTGTGAGGCGGAGCTTGCAGGGAGTCGAGATCGCGCCACTGGGCTCC
AGCCTGGGCGACAGAGTGAGAGTCTGTCTCA

803/2777
FIGURE 713

MLQRLQIIGESIMKRDLTSVINVANFSEIVHILQVIGELILERNLTNVMTVPRSSVKLHPMQNIGEFIQERNLTS
VMIVAKPLLHVHTSLDIRESILDRNLTNVISVARSSVQDHSMQNIRKFIFEITVPNEMSIANHQALIDIGVNSAL
T

804/2777
FIGURE 714

CCTACTGGTAGATCTTCACAGACTGGATGTTAAGCAAGTGGAAGGCAGAACAGCCTCCACTCGCGGTGCACGGG
GAAGAGTGGGCGGCGGACGTGGTTTTGGGCCTGGGACCCAGGTGTTCCCTCTAGGCCCAGGGCGGGCATCGCTGCC
CATCCGTCCACAGGTGGTTCTGAGGCGTCTCTCAACAGCCATATGGCGGACACCAGAACCCGGGTGTAACAGTG
ACCCGTTTTCTGTGTGGGTCCCCACTCCCAGGGAGGGCAGGAGAGCGCCGGGGGCGTAACCCCCCTCCCCACGCT
GGCACCAGAGTGTGAGCAGAATCGGCTTAAGGCAGCTCCCAGTCCCCATCGCCCCCAAGGTGAAAGAATCGGGA
CAGGAAATGGGTCTGGGGGACCGAGTTTGGGCCGGAATGTTTCAGAGCGTGTCCGTCTCTGCTCTTTAAAGCCCTCT
CTCCATCCCAGAACCAGCCGGGCGCCCCAGCGCTCGCTGCGGTCTCGCGCCGGGTAAACGGCCGATGGCCGC
CCCCGCCCCAGCCGAGCCGGGGAGGAAATCCCGCGCCTCGGAAGAGGCGCTTCGGGCTCGGGCGGGTTCCGGAA
GCCGAGGGGCGGGAGTAGGTGGGCGCATAGGGGCTCCTGGGAGGCGGGACCAAGACGCGCGTTACCGGGAGGCC
AGGCCCCGGCGCTGCACCCTCCGCGGCCCGGGCCCTGAGGCGGGGCTCCCGCGACTTCCCGGCCAAAGCAGCGCA
GCGCCCGGGCGGCCAGCCCCGAGCGGCCACAGCAGCATAGCGGGCGAGCGGATCCAGAGGCCCGGGCTTCCT
TCCTGTGCGAGTCGGCGCGGACGACTGCTAGTCCAGCCGTTGGGCGCCGCTGGATCTCGGCGCCTGGCCCTTAA
AGAGACCCGGTCGCATTTTCATCTCAGCGAGAGGAGAAATACTCGAAGGGAGAGGTTCCGCCGTGGCAGCCAGAAG
CCTTACCACTGCTAGGACGCTGGCAGAACGCACCCATAACTTGGCAACACTCGGAGGATGGATGGCAAATAATAC
CAGCGACTGAAGGGTTAATTAATGATTGCAGATTAATTGAACACCTTCCGTAATCAGACACCTGGCACACACTCA
TGATGTCACTTATTCTCCCAACAACCCTGCAAAATAGATAACTGTCTCTCCCATTCTCCGAGCTTGTCTCAGAG
AATTAGGTAACCTTGTTCAAATGGTCAGAAGCAACAGATATAACTCCTTGCTCTACTCTTTCCCCCTTCTCACT
ACTGCACTTGACTAGTCTTTTTTAAACATAATTTTTTTGGCCAGGCACGGTGGCTCACGCCTGTAATCCCAGCAC
TTTGGGAGGCCAAGGAAGGCAGATCACCTGAGGCCAGAAGTTCGAGACCAGCCTTGGCCAACATGGCGAAACCCC
ATCGCTACTAAAAATGCAAAAATTAGCTGGGTGTGGTGGGGGGCACCCGTATTCCCAGCTACTCAGAGGCTGAGG
CAGGAAAATCGCTTGAACCTGGAGGCAGAGATTGCAGTGAGCCGAGATCATTGCATTGCACTCCAGCTTGAGCAA
CAGAGGGACACTTCGTTCCCCCGCCAAAAAAATTTTTTTTTTAATGATCAGAAGCGGCTGGGCGCGGTGGC
TCGGGCTGTAAATCCAGCACTTTCGGAGGCCGAGGAAGGTAGATCACTTGAGGTCATGAGTTCAAGACCAGCCT
GACCAACATGGCCAAAACCTGTCTCTACTAAAAATACAAAATTAGCCGGGCGTGGTAGCGCACGCCTGTAATCC
CAGCTACTCAGGAGGCTCAGGCACGAGAATCGCTTGAGTCTGGGAGGCGGAGGTTGCAGTGAGCTGAGATCGTGG
CCACTGCAATCCAGCCTGGGCGATAGAGTGAGACTACGTCTCAAAAAAAAAAAAAAAAAAAAAA

805/2777
FIGURE 715

MFRACPSCSLKPLSPSQNQSRAAPPALAAVSRPGNGRWPPPPQPQPGRKSRASEEALRARAGSGSRGAGSRWAHRG
SWEAGPRRALPGGQARRCTLRGPGPEAGLPRLPGPKQRSARAAQPRSGHSSIAGRADPEARASFLCESARTTASP
AVGRRDLGAWPLKRPGRISSQREEKYSKGEVRRWQPEALPLLGRWQNAPI TWQHSEDGWQIIPATEGLINDCRL
IEHLP

806/2777
FIGURE 716A

AGCTTGAGCGCGGCGGCGGCGGCGTTGTTTCAGTCAGAGCGAGAACATTCCAGAGGTCGCCCAGCTCCGGCGCTGACGG
GTGTGGACCGCGGACGTCGCTGGGACAGCCCCTCCCGCTGCTCGGCGGCGGCATCTGGCCCGGCCGCTCCTCGC
TGCCTTCGCTCCGCTCCTCGGACTCGGACTCGGGTTTATATCGCGCTCACTTCATCCCAGTCCCGGGCGAG
CAGCGTTGGGTTTATGTCTTTATTTGACGAAAACGAGCTGTTGCGCAGCCATTGGTACCTGTATTGGGGAACAT
AGCATACAAGCAAGAAGCTTACAGCCTCAGTGGCGAAAATTTTTTCATGTTCAGAGACCGAGAAGCTCTTGACGTCG
TTTATGTTCATCCCTTCTTCTCCAGACAGAAGATACCAAAAAGTTGCAATCAAAGATCTCTTCATCTTATTGATAA
AGCCACTAATAAGCCAAAATGTCCTGTCAATGTCAACCGCAGCGTGTTCAGACCAGTTCTATCGCTACAAGATGCC
CGTCTGATTGCCAAGGTTGAGGGCAAAGGCAATGGAATCAAGACAGTTATAGTCAACATGGTTGACGTTGCAAAG
GCGCTTAATCGGCCTCCAACGTATCCCACCAAATATTTTGGTTGTGAGCTGGGAGCACAGACCCAGTTTGATGTT
AAGAATGACCGTTACATTGTCAATGGATCTCATGAGGCGAATAAGCTGCAAGACATGTTGGATGGATTCAATAAA
AAATTTGTTCTCTGTCTGAATGTGAGAATCCTGAAACAGATTTGTCATGTCAATCCAAAGAAGCAAACAATAGGT
AATTCTTGTAAGCCTGTGGCTATCGAGGCATGCTTGACACACATCATAAACTCTGCACATTCAATCTCAAAAAC
CCACCTGAGAATAGTGACAGTGGTACAGGAAAGAAAGAAAAGAAAAGAAAAGCAAAGGGCAAAGACAAGGAA
AATGGCTCCGTATCCAGCAGTGAGACACCACCACCACCACCACCACCACCACCACCACCACCACCACCACCACCACC
ATGGAAGAAGAGGAGGATGATGACTGGGAGAAAGATACAACTGAGGAAGCTCAAAGGCGTCGAATGGATGAAATC
AGTGACCATGCAAAAGTTCTGACACTCAGTGATGATTTGGAAAGAACAATTGAGGAGAGGGTCAATATCCTCTTT
GATTTTGTAAAGAAAAGAAAAGAGGGTGTATTGATTCACTGACAAAGAAATCGTTGCTGAAGCAGAAAGA
CTGGATGTAAAGCCATGGGCCCTCTTGTCTAACTGAAGTTCTTTTTAATGAGAAGATTAGAGAACAGATTAAG
AAATACAGGCGCCATTTCTACGATTTTGTCAACAACAAAAAGCCCAACGGTACCTTCTTCATGGTTTGGAG
TGTGTGGTAGCAATGCATCAAGCTCAGCTTATCTCCAAGATTCCACATATCTTGAAGGAGATGTACGATGCAGAC
CTTTTAGAAGAAGAGGTCAATCATCAGCTGGTTCGGAAGGCGCTTAAGAAATATGTCTCCAAAGAACTTGCCAAA
GAGATTCTGTCAAAGCAGAACCATTATATAAATGGTTGAAGGAGGCAGAGGAAGAATCTTCTGGTGGCGAAGAA
GAAGATGAAGATGAGAACATTGAGGTGGTGTATTGGAAGGCTGCCAGTGTACCGAAAGTTGAGACTGTAAAGTCA
GACAACAAGGATGACGACATCGATATTGATGCCATTTAAGGGGATGGATGCAACCTAGCTTAACAGTATAATGCT
GCAAAATTTCTCCATTATCAGCCAGAAGTGCAACATGTATGTGCAAAAGCTAAAATGGCTTAACATCATGCTAC
ACTTTACACTAAAAATCTATTACTGTGAGTGGTCTGTTATTAAGCCCAATGAGACATCTAGGGAGTCCATACACA
TCAGTGAGCAGATGTAGTTTGCTTATTTATAGCATGTTTCTTTTTGAAAACTAGTGGTGGACACATTTGGATCA
CATTTATACAGTTATAAAAAATAAAGGTTTGATTTTGGTCTGTTCTTCAGATGTTTGGCTCTGAATGACTTAAGCTG
AAGTAACTGGCTCCTTACTTTAAATGTTCTGCCATCATTTACCTGATGAGCATTCTTGGAGCCTGCCAGATATT
GTTAGGTCCTGGGGCTGCAAGAGGTCCTCAACAGGATGTAAAGCAAACCTAATTGTAATTAATTTATTAGCCC
ATTAAGAAAGTACTAAAGTTTTATCTCTGTAGTTCCTCAAATTGGCATCTGGTAATGTACATTGTGAGGTAGACT
GATAATGAAATGACAGTGCAACATCTTAACCAAGAAGTAAATATGACCTCAGTGTCTATAAAATAATGTAAGAGC
AGGATTTGAACTTGAGAGCTGTTTCTCATTTCATGTACACTTGCCCCAAATTGTCTTTGAAAGTCGTGTGCAT
TGCACGTTGGATGAGCCAGGGAATTAATACATTAACAAGCATTTTGTGTGTGCGTAGTAGTTACTTTGTACTGA
GAGAACTTGCTTTGGGGTGCAATTAACAATAAACTGATTTTATTTGGGAGAAACAAGGAAGGGTGCACTTAAC
AGCAACCTAAGCATGATTTTTCAGCTTTTGGCCCTTAGGGTTTAAATTACAATTCCAAAATGTTAGACATACTGTA
TTTTTTCGTTTCAGTGTGGCTTTAATTTTCCCCTCTTGACGTTTGTTCGTAAATGCCTTTTACATTTGGACACATA
GTTTATGCTTTTATAGATTTTGGTTGCTTTCTTGCCAAAATAAGTGTTAACTGTGTTTCAAACCTTGATTTTCTTT
TTTTTCTTTTTTTTTCTTCCAGAATGTCTTATTTAAAAGAAAGCTAAAAGCATACTTCTAAGTCAGAGCCTCT
ATTTTGGTGTAAAGACTTGGGATATTTTTTACTTCACATTGAATATAGCCAGGCACCCAAGAAGTCTGATGGCCAC
CTGAGTGCAGGTGACAAGGACCTGACAGAGCCCATGCAGGGCTTTAGATTTGGACACACAAGAGTTGATAACTTC
CTCATGAACCTCTTGCTGATCTAACTCATATTATGGGTTCTGACTGTTTGAGTAATCGTCTTCAAGGTAAAC
CTCTTGGCAGTTACCTTTTTACAAAAGTGCACAGTGGGAATCGAGAATCGATAGGGTTAATTTTGGAGCAGTGGC
TTATACCATTCACCTCTGTTTTTTTTGTGATTATTTACAGATAATGAGACCTTAATAACAAATAGGCGTAAAAAA
ATTTTCACATTGAAATGATAGAAACATTTGATGTAATAAACTTGGTTGGCTTGATATTTAAGGAATTGAAACC
TAGCAATCTTATTGGAGAGACAAGAATTGGTCTCCAGCTGCCTTTGATCAAGATTGGGGTGAAGTGGAGCAGGA
GCCATATACCTGGAGGGAATGTGCTTTGTACACCAAAGAGGATTTTTTTTTTCTTCAAACCTGTATGTTGCCTA
GGTTTCAAATTCCTTGGCGCAAGGCTGATCTGCTTTCATTAACCTGGAATTCGTAGGAGATACTGGTGACCTAAG

807/2777

FIGURE 716B

CTAAGTTGCACTCAGCATACTCAGTGTCAAGCTAATGAGGTTCTATTATAAAGGTTCTACTTTTAATCTGAGGGA
AAACATGTTTCAGGGCTTCTAGAACACTAAAAAATTGGCTTAAACCAGTGTTTCAGTCTGGTGCCAACTTCGAAT
GGAATACAAATTCACATAATCTGAACTTTGTTTACAGGTTATCCTAATAGAGTAATTCTTCACCTTTGCTCTATTG
AACTGTCTTAAGGATTTGTTTAAACAGCTAAGTTACTTGATTAAATAATGATAAAATTGTAAAAAAAAAAAAA

808/2777
FIGURE 717

MSVNVNRSVSDQFYRYKMPRLIAKVEGKGNGIKTVIVNMVDVAKALNRPTTYPTKYFGCELGAQTQFDVKNDRI
VNGSHEANKLQDMLDGF IKKFVLCPECENPETDLHVNPKKQTIGNSCKACGYRGMLDTHHKLCTFILKNPPENS
SGTGKKEKEKKNRKGKDKENGSVSSSETPPPPPPNEINPPPHMTMEEEEDDDWGEDTTEEAQRRRMDEISDHAKV
LTLSDDLERTIEERVNILFDFVKKKKEEGVIDSSDKEIVAEAEERLDVKAMGPLVLTEVLFNEKIREQIKKYRRHF
LRFCHNNKKAQRYLLHGLECVVAMHQAQLISKIPHILKEMYDADLLEEEV IISWSEKASKKYVSKELAKEIRVKA
EPFIKWLKEAEEESSGGEEDDEDENIEVVYSKAASVPKVETVKS DNKDDDDIDDAI

809/2777
FIGURE 718

GGGGCGGGGAGCGGACTTCCTCCTCTGAGGGCCGTGCCGCGCTGCCAGATTTGTTCTTCCGCCCCTGCCTCCGCG
GCTCGGAGGCGAGCGGAAGGTGCCCCGGGGCCGAGGCCCGTGACGGGGCGGGCGGGAGCCCCGGCAGTCCGGGGT
CGCCGGCGAGGGCCATGTCGCTGTTGGGGGACCCGCTACAGGCCCTGCCGCCCTCGGCCGCCCCACGGGGCCGC
TGCTCGCCCCCTCCGGCCGGCGGACCCCTCAACCGCTGCCGGAGCCGCTGCTGCGGAGGCTCAGCGAGCTCCTGG
ATCAGGCGCCCCGAGGGCCGGGGCTGGAGGAGACTGGCGGAGCTGGCGGGGAGTCGCGGGCGCCTCCGCCTCAGTT
GCCTAGACCTGGAGCAGTGTTCTCTTAAGGTACTGGAGCCTGAAGGAAGCCCCAGCCTGTGTCTGCTGAAGTTAA
TGGGTGAAAAAGGTTGCACAGTCACAGAATTGAGTGATTTCTGCAGGCTATGGAACACACTGAAGTTCTTCAGC
TTCTCAGCCCCCAGGAATAAAGATTACTGTAAACCCAGAGTCAAAGGCAGTCTTGGCTGGACAGTTTGTGAAAC
TGTGTTGCCGGGCAACTGGACATCCTTTTGTTCATATCAGTGGTTCAAATGAATAAAGAGATTCCAAATGGAA
ATACATCAGAGCTTATTTTAAATGCAGTGCATGTAAAGATGCAGGCTTTTATGTCTGTGAGTTAATAACAATT
TCACCTTTGAATTCAGCCAGTGGTCACAGCTGGATGTTTGCACATCCCAGAGAGCTTCCAGAGAAGTGTGATG
GCGTCTCTGAATCCAAGTTGCAAATCTGTGTTGAACCAACTTCCCAAAGCTGATGCCAGGCAGCACATTGGTTT
TACAGTGTGTTGCTGTTGGAAGCCCTATTCTCCTACTACCAGTGGTTCAAAAATGAATTACCATTAAACACATGAGA
CCAAAAGCTATACATGGTGCTTATGTGGATTTGGAACACCAAGGAACCTACTGGTGTCTATGATATAATGATC
GAGACAGTCAAGATAGCAAGAAGGTAGAAATCATCATAGGAAGAACAGATGAGGCAGTGGAGTGCAGTGAAGATG
AATTAAATAATCTTGGTCATCCTGATAATAAAGAGCAAACAAGTACCAGCCTTTGGCGAAGGACAAGGTTGCC
TTTTGATAGGAAATATGAATTACCGGGAGCACCCCAAGCTCAAAGCTCCTTTGGTGGATGTGTACGAATTGACTA
ACTTACTGAGACAGCTGGACTTCAAAGTGGTTTCACTGTTGGATCTTACTGAATATGAGATGCGTAATGCTGTGG
ATGAGTTTTTACTCCTTTTAGACAAGGGAGTATATGGGTTATTATATTATGCAGGACATGGTTATGAAAAATTTG
GGAACAGCTTCATGGTCCCCGTTGATGCTCCAAATCCATATAGGTCTGAAAATTGTCTGTGTGTACAAAATATAC
TGAAATTGATGCAAGAAAAAGAACTGGACTTAATGTGTTCTTATTGGATATGTGTAGGAAAAGAAATGACTACG
ATGATACCAATTCATCTTGGATGCACTAAAAGTCCCGCCAATATTGTGTTGGATATGCCACGTGTCAAGGAG
CAGAAGCTTTTGAAATCCAGCATTCTGGATTGGCAAATGGAATCTTTATGAAATTTTAAAGACAGATTATTAG
AAGATAAGAAAATCACTGTGTTACTGGATGAAGTTGCAGAAGATATGGGTAAGTGTACCTTACCAAAGGCAAAC
AGGCTCTAGAGATTGGAAGTAGTTTATCTGAGAAGAGAGCACTTACTGATCCAATACAGGGAACAGAATATTCTG
CTGAATCTCTTGTGCGGAATCTACAGTGGGCCAAGGCTCATGAACCTCCAGAAAGTATGTGTCTTAAGTTTGACT
GTGGTGTTCAGATTCAATTAGGATTTGCAGCTGAGTTTTCCAATGTCATGATCATCTATACAAGTATAGTTTACA
AACCACCGGAGATAATAATGTGTGATGCCCTACGTTACTGATTTTCCACTTGATCTAGATATTGATCCAAAAGATG
CAAATAAAGGCACACCTGAAGAACTGGCAGCTACTTGGTATCAAAGGATCTTCCCAAGCATTGCCTCTATACCA
GACTCAGTTCACTGCAAAAATTAAAGGAACATCTAGTCTTCACAGTATGTTTATCATATCAGTACTCAGGATTGG
AAGATACTGTAGAGGACAAGCAGGAAGTGAATGTTGGGAAACCTCTCATTGCTAAATTAGACATGCATCGAGGTT
TGGGAAGGAAGACTTGCTTTCAAACCTGTCTTATGTCTAATGGTCCTTACCAGAGTTCTGCAGCCACCTCAGGAG
GAGCAGGGCATTATCACTCATTGCAAGACCCATTCCATGGTGTTTACCATTACATCCTGGTAATCCAAGTAATG
TTACACCAGCAGATAGCTGTCAATTGCAGCCGACTCCAGATGCATTTATTTCAAGTTTCGCTCACCATGCTTCAT
GTCATTTTAGTAGAAGTAATGTGCCAGTAGAGACAACCTGATGAAATACCATTTAGTTTCTCTGACAGGCTCAGAA
TTTCTGAAAAATGAACCTCCTTGTTTTTGAAGTTAGCATAATTTTAGATGCCTGTGAAATAGTACTGCACTTACA
TAAAGTGAGACATTGTGAAAAGGCAAATTTGTATATGTAGAGAAAGAATAGTAGTAACTGTTTCATAGCAAACCT
CAGGACTTTGAGATGTTGAAATTACATTATTTAATTACAGACTTCCTCTTTCT

810/2777
FIGURE 719

MSLLGDPLQALPPSAAPTGPLLAPPAGATLNRLREPLLRRLSELDDQAPEGRGWRRLAELAGSRGRLRLSCLDLE
QCSLVLEPEGSPSLCLLKMGEKGCTVTELSDFLQAMEHTEVLQLLSPPGIKITVNPESKAVLAGQFVKLCCRA
TGHFVQYQWFKMNKEIPNGNTSELIFNAVHVKDAGFYVCRVNNNFTFEFSQWSQLDVCDIPESFQRSVDGVSES
KLQICVEPTSQKLMPGSTLVLCVAVGSPIPHYQWFKNELPLTHETKKLYMVPYVDLEHQGTYWCHVYNDRDSQD
SKKVEIIIGRTDEAVECTEDELNNLGHPDNKEQTTDQPLAKDKVALLIGNMNYREHPKLKAPLVDVYELTNLLRQ
LDFKVVSLDDLTEYEMRNAVDEFLLLLDKGVYGLLYYAGHGYENFGNSFMVPVDAPNPYRSENCLCVQNILKLMQ
EKETGLNVFLDMCRKRNDYDDTIPILDALKVTANIVFGYATCQGAEAFEIQHSGLANGIFMKFLKDRLLLEDKKI
TVLLDEVAEDMGKCHLTGKQALEIRSSLSEKRALTDPIQGTEYSAESLVRNLQWAKAHELPESMCLKFDCGVQI
QLGFAAEFSNVMIIYTSIVYKPPEIIMCDAYVTDFFPLDLIDPKDANKGTPEETGSYLVS KDLPKHCLYTRLSSL
QKLKEHLVFTVCLSYQYSGLEDTVEDKQEVNVGKPLIAKLDMHRGLGRKTCFQTCLMSNGPYQSSAATSGGAGHY
HSLQDPFHGVYHSHPGNPSNVTPADSCHCSRTPDAFISSFAHHASCHFSRSNVPVETTDEIPFSFSDRLRISEK

811/2777
FIGURE 720

ACCCAGGGTCCGGCCTGCGCCTTCCCGCCAGGCCTGGACACTGGTTCAACACCTGTGACTTCATGTGTGCGCGCC
GGCCACACCTGCAGTCACACCTGTAGCCCCCTCTGCCAAGAGATCCATACCGAGGCAGCGTCGGTGGCTACAAGC
CCTCAGTCCACACCTGTGGACACCTGTGACACCTGGCCACACGACCTGTGGCCGCGGCCTGGCGTCTGCTGCGAC
AGGAGCCCTTACCTCCCCTGTTATAACACCTGACAGCCACCTAACTGCCCCCTGCAGAAGGAGCAATGGCCTTGCC
TCCTGAGAGGTAAGAGCCCCGGCCACCCTCTCCAGATGCCAGTCCCCGAGCGCCCTGCAGCCGGCCCTGACTCTC
CGCGGCCGGGCACCCGCAGGGCAGCCCCACGCGTGCTGTTCCGAGAGTGGCTCCTTGGAGAGATCAGCAGCGGCT
GCTATGAGGGGCTGCAGTGGCTGGACGAGGCCCGCACCTGTTTCCGCGTGCCCTGGAAGCACTTCGCGCGCAAGG
ACCTGAGCGAGGCCGACGCGCGCATCTTCAAGGCCTGGGCTGTGGCCCGCGGCAGGTGGCCGCCTAGCAGCAGGG
GAGGTGGCCCGCCCCCGAGGCTGAGACTGCGGAGCGCGCCGGCTGGAAAACCAACTTCCGCTGCGCACTGCGCA
GCACGCGTGCCTTCGTGATGCTGCGAGATAACTCGGGGGACCCGGCCGACCCGCACAAGGTGTACGCGCTCAGCC
GGGAGCTGTGCTGGCGAGAAGGCCAGGCACGGACCAGACTGAGGCAGAGGCCCGCGCAGCTGTCCACCACCAC
AGGGTGGGCCCCAGGGCCATTCTTGGCACACACACATGCTGGACTCCAAGCCCCAGGCCCCCTCCCTGCCCCAG
CTGGTGACGAGGGGGACCTCCTGCTCCAGGCAGTGCAACAGAGCTGCCTGGCAGACCATCTGCTGACAGCGTCAT
GGGGGGCAGATCCAGTCCCAACCAAGGCTCCTGGAGAGGGACAAGAAGGGCTTCCCCTGACTGGGGCCTGTGCTG
GAGGCCAGGGCTCCCTGCTGGGGAGCTGTACGGGTGGGCAGTAGAGACGACCCCGAGCCCGGGCCCCAGCCCG
CGGCACTAACGACAGGCGAGGCCGCGGCCCGAGAGTCCCCGCACCAGGCAGAGCCGTACCTGTACCCCTCCCCAA
GCGCCTGCACCGCGGTGCAAGAGCCCAGCCCAGGGGCGCTGGACGTGACCATCATGTACAAGGGCCGCACGGTGC
TGCAGAAGGTGGTGGGACACCCGAGCTGCACGTTCCCTATACGGCCCCCGAGCCAGCTGTCCGGGCCACAGACC
CCCAGCAGGTAGCATTCCCCAGCCCTGCCGAGCTCCCGGACCAGAAGCAGCTGCGCTACACGGAGGAAGTGTGTC
GGCACGTGGCCCTGGGTGTCACCTGGAGCTTCGGGGGCCACAGCTGTGGGCCCGGCGCATGGGCAAGTGCAAGG
TGTACTGGGAGGTGGGCGGCCCGCCAGGCTCCGCCAGCCCTCCACCCAGCCTGCCTGCTGCTCGGAAGTGTG
ACACCCCATCTTCGACTTCAGAGTCTTCTTCCGAGAGCTGGTGGAAATTCGGGCACGGCAGCGCCGTGGCTCCC
CACGCTATACCATCTACCTGGGCTTCGGGCAGGACCTGTCAGCTGGGAGGCCCAAGGAGAAGAGCCTGGTCTGG
TGAAGCTGGAACCCTGGCTGTGCCGAGTGCACCTAGAGGGCACGCAGCGTGAGGGTGTGTCTTCCCTGGATAGCA
GCAGCCTCAGCCTCTGCCTGTCCAGCGCCAACAGCCTCTATGACGACATCGAGTGCTTCTTATGGAGCTGGAGC
AGCCCGCCTTAGAACCCAGTCTAATGAGAACTCCAGAAAGCTGGAGCAGCCACCTAGAGCTGGCC

812/2777
FIGURE 721

MPVPERPAAGPDSRPFGTRRAAPRVLFGEWLLGEISSGCYEGQLWLDEARTCFRVPWKHFARKDLSEADARIFKA
WAVARGRWPPSSRGGGPPPEAETAERAGWKTNFRCLRSTRRFVMLRDNSGDPADPHKVYALSRELCWREGPGTD
QTEAEAPAAVPPPQGGPPGFFLAHTHAGLQAPGPLPAPAGDEGDLLLQAVQQSCLADHLLTASWGADPVPTKAPG
EGQEGPLPLTGACAGGPGLPAGELYGWAVETTPSPGPQPAALTTEGAAAPESPHQAEPYLSPPSACTAVQEPPG
ALDVTIMYKGRTVLQKVVGHP SCTFLYGPDPFAVRATDPQQVAFPSAELPDQQLRYTEELLRHVAPGLHLELR
GPQLWARRMGKCKVYWEVGGPPGSASPSTPACLLPRNCDTPIFDFRVFFRELVEFRARQRRGSPRYTIYLGFGQD
LSAGRPKEKSLVLVKLEPWLCRVHLEGTQREGVSSSLDSSSLSLCLSSANS�YDDIECFLELEQPA

813/2777
FIGURE 722

TCTGCAGCCACGAGAAGCAAAGTTGACATTTCTGGATCACTCTCCCCAGACGCGTCACTTGCCCACAAGCGGGAC
ACGGCAGTCTCGCTGAGCCAGCTGTGCAGAGGGACAGATGGAAGAAAGCTAGAGATGCTGCTTCGTGGGCGCTGA
AGTTGCAGAACTTGGGCTGGTTTTCTTTCTTCCCATCCCCCTCCTCCTGACAAACCACATCTTGACTCAGATGG
TCGAAAGAAAACTCTTTCAAGTTATTTGATATTTGGGAACCTCCAGGAGACCATAACTTATTTTTGAGGGAGGC
TCCTTCTCTCCCTTTGCTGGGAAC
CACAGCTGTACACCATCGTGGTTTCAGGCTGCAGTGGCTCCGAATAGATCCCAAAGACTTTTACTGAAAATTCCTT
ATGGATCTCTGAGAAGGCGCAGCGTTGAAAGGATGACGGAGGGCCGCCGATGTCAAGTACATCTTCTTGATGACA
GGAAGCTGGAACCTCTAGTACAGCCCAAGCTGTTGGCCAAGGAGCTTCTTGACCTTGTGGCTTCTCACTTCAATC
TGAAGGAAAAGGAGTACTTTGGAATAGCATTACAGATGAAACGGGACACTTAAACTGGCTTCAGCTAGATCGAA
GAGTATTGGAACATGACTTCCCTAAAAAGTCAGGACCCGTGGTTTTATACTTTTGTGTCAGGTTCTATATAGAAA
GCATTTTCATACCTGAAGGATAATGCTACCATTGAGCTTTTCTTTCTGAACGCGAAGTCTTGCATCTACAAGGAGC
TTATTGACGTTGACAGCGAAGTGGTGTGTTGAATTAGCTTCTATATTTTACAGGAGGCAAAGGGAGATTTTTCTA
GCAATGAAGTTGTGAGGAGTGACTTGAAGAAGCTGCCAGCCCTTCCCACCCAAGCCCTGAAGGAGCACCCCTTCCC
TGGCCTACTGTGAAGACAGAGTCATTGAGCACTACAAGAACTGAACGGTCAGACAAGAGGTCAAGCAATCGTAA
ACTACATGAGCATCGTGGGGTCTCTCCCAACCTACGGGGTTCACTATTATGCAGTGAAGGACAAGCAGGGCATA
CATGGTGGCTGGGCCTGAGCTACAAAGGGATCTTCCAGTATGACTACCATGATAAAGTGAAGCCAAGAAAGATAT
TCCAATGGAGACAGTTGGAAAACCTGTACTTCAGAGAAAAGAAGTTTTCCGTGGAAGTTCATGACCCACGCAGGG
CTTCAGTGACAAGGAGGACGTTTGGGCACAGCGGCATTGCAGTGCACACGTGGTATGCATGTCCGGCATTGATCA
AGTCCATCTGGGCTATGGCCATAAGCCAACACCAGTTCTATCTGGACAGAAAGCAGAGTAAGTCCAAAATCCATG
CAGCACGCAGCCTGAGTGAGATCGCCATCGACCTGACCGAGACGGGGACGCTGAAGACCTCGAAGCTGGCCAACA
TGGGTAGCAAGGGGAAGATCATCAGCGGCAGCAGCGGCAGCCTGCTGTCTTCAGGTAGGCAGAGGCCAGCTGGAG
GGACGCCCCCTGAGCATGGCTGGGACCCAGAGGGGACCCAGGAAGGTGGGAGAGCTGCAGCTGGGGAGACTGC
AGGGCAAGCTGCTCCAAAGCTGGCTTTGCTTTCCAGACCAAGGTTGGGATCCAAATGCGAATCTGAGAAAAGTGC
TCCCAGGAATCAAATAGTGGAAGG

814/2777
FIGURE 723

MVVQAAVAPNRSQRLLLKIPYGLRRRSVERMTEGRRCQVHLDDRKLELLVQPKLLAKELLDLVASHFNLKEKE
YFGIAFTDETGHNLWLQDRRVLEHDFPKKSGPVVLYFCVRFYIESISYLDKNATIELFFLNAKSCIYKELIDVD
SEVVFELASYILQEAKGDFSSNEVVRSDLKKLPALPTQALKEHPSLAYCEDRVIEHYKKLNGQTRGQAIVNYMSI
VGS LPTYGVHYYAVKDKQGIPWWLGLSYKGIFQYDYHDKVKPRKIFQWRQLENLYFREKKFSVEVHDPRRASVTR
RTFGHSGIAVHTWYACPALIKSIWAMAI SQHQFYLD RKQSKSKIHAARSLSEIAIDLTETGTLKTSKLANMGSKG
KIISGSSGSLSSGRQRPAGGTPPEHGWDPRGDPGRWGELQLGRLQGKLLQSWLCFPDQGWDPNANLRKLLPGIK

815/2777
FIGURE 724

AAAGAGAACACAGCTAGATACTGGGCATGTGCAACTGAATGGGAGTAGTTTTACATACAGGATACTTTGGAAGCT
GGGAAGTAGGAGAAGCACCATCTCTAATTATAGGGAAGCACCACAATTGTCAGACAATTTGTCACGTTCTACAAT
TGCCACTGGCATGAGGAACCTGAGATAATGTCCCAAGTGAATCACTGTGCACTTATCCTGCTGGGGAGGATCATG
GACTAGGAATTTTGTGATACCAGCATGGATTACATGCAAGTGGTATTTTGGTTGGGAAATAAGCACATCATGCTA
GTCCTGGGCTGTTCCCTGTGTAGGGCTGCCTGCCCCCTTATAAAAGGACTCTCCACCACACTGATGCTATCTTCTT
GCCATTCAAGTTGTAGATCTTTGAAGACTCTGGTGAGTACAAATATTAGAAGCTTTTCTTGCACTTGATGGTGT
AGGGTCTAACCTGGGTACAGAAATGCCGTTTTATTTTAACCAATTTATCCTCATGGATAGGAAAAAGAAGATAAT
GAGGTCTTGAAGGTAAATTTTAGCTGGTATTTGGTAGATAAACATGAAGGTGATGAGGAACCTGGAGTCAAATAT
ATAAAATCTTAACTGAAGGAGAGTGAGAGACACAAGATGCTGTTCTGTCTCCTGCTTCACATCTGTTCCAAATA
CATCTCTCTTGGAGTGCAATCTCCTTGGGTGATGGGTGCAAGTTTTTGCAATTCTCTTAAAAAACTCATGGCTCA
GCACCACAGCCAGCTCATTAAAACTGGTAACTAGGGCCTCATGGAAGATAAGATCACAGATTTGTTTGGTATTGG
CTAGACTTTTAAATATCTGAGTTTTTCTTCTTCAGATAGTGTGTTGATTTCAGACAACATTTGTTGCTGTCTCATAG
GCAATTTTATTTTCAGAAAATGGTAGAATGAGAGAACAGCCAGAAAGACGGAAGAAGTGAAGGTAAGAGGTCCTA
AAAGTGAAGTGTGAAGAAGGTTACAAAGTCATAAAGACTGTATTAGGGATCAAAGTTGGTCCCTAGATACTGGA
GATTTGATGTCCTAGCTAATTGCTCCACCAACAGGACTGTCTCTTATGAGCACTGTTTCGTGTGTATCTTTCA
GATTCTCTGAGACTGAGGAGAGATGCTCTTACCAGCAGCAGCAGTGCAAGCAGCCCTGCCAGCCACCTCCTGTGTG
CCCCACGCCAAAGTGCCAGAGCCATGTCCACCCCGAAGTGCCCTGAGCCTTACCTGCCTCCTCCTTGTCCACC
TGAGCATTGCCACCTCCACCATGCCAGGATAAATGCCCTCCTGTGCAACCATACCACCCCTGCCAGCAGAAGTA
TCCACCCAAGAGCAAGTAAACATCACTAGAAATTCATCAGGACCATGAAACAACAAGATCCAGTGGCTCTTCTTATT
CCCAGGACTCCATCATCTTCCCTTCAGCTGTAGTGGGAGGCTGCATCTTCCCTAACCTCTGTCTGGCTTGAGCGT
TGACAGAGAAAAGGCTTAGTTCTGAAAACCGATATGTTGTTGGAAGATGAGCAGCCAGATCATTGCCTAATCTCG
CTTTGCTGTCTGTGATGTAGATGGTGGTTCCTATCCTGAGAGCAAGTGTTTATTCTTTTGCTTCTCCCAATA
AA

816/2777
FIGURE 725

MSYQQQQCKQPCQPPFVCPTPKCFEPCFPFKCFEYLPPPCPPEHCPPPPCQDKCPVQPYPPCQQKYPPKSK

817/2777
FIGURE 726A

GAATTCGGGGAACGGTGTGGAGCGGAGGCCGCGGAGGCTCCTCGGTCCTTCAGCACCCCTCGGCCCGACGCACCC
ACGCCCCCTACCCCCCGAGAGCCGAAAATGACCCCAAGTGGGGTCAAAGTGCTGGAAACAGCAGAGGACATCCAG
GAGAGGCGGCAGCAGGTCTTAGACCGATACCACCGCTTCAAGGAACTCTCAACCCTTAGGCGTCAGAAGCTGGAA
GATTCCTATCGATTCCAGTTCTTTCAAAGAGATGCTGAAGAGCTGGAGAAATGGATACAGGAAAACTTCAGATT
GCATCTGATGAGAATTATAAAGACCCAAACCAACTTGCAGGGAAAGCTTCAGAAGCATCAAGCATTTGAAGCTGAA
GTGCAGGCCAACTCAGGAGCCATTGTTAAGCTGGATGAAACTGGAAACCTGATGATCTCAGAAGGGCATTTTGCA
TCTGAAACCATACGACCCGTTTGATGGAGCTGCACCGCCAGTGGGAATTACTTTTGGAGAAGATGCGAGAAAAA
GGAATCAAATTGCTGCAGGCCCAGAACTTGGTGCAGTACTTACGAGAATGTGAGGACGTGATGGACTGGATCAAT
GACAAGGAAGCAATTGTTACTTCTGAAGAGCTGGGCCAGGATCTGGAGCATGTAGAGGTTTTACAGAAGAAATTT
GAAGAGTTTTCAAACAGATATGGCTGCTCATGAAGAAAAGAGTTAATGAAGTGAACCAGTTTTGCTGCCAAACTCATA
CAGGAGCAGCACCCCTGAGGAGGAAGTATCAAGACTAAGCAGGATGAAGTCAATGCAGCCTGGCAGCGGCTGAAG
GGCCTGGCTCTGCAGAGGCAGGGGAAGCTCTTTGGGGCAGCAGAAGTTCAGCGCTTTAACAGGGATGTGGATGAG
ACTATCAGTTGGATTAAGGAAAAGGAGCAGTTAATGGCCTCTGATGATTTTGGCCGAGACCTGGCAAGTGTTTTCAG
GCTCTGCTTCGGAAGCACGAGGGTCTGGAGAGAGATCTTGCTGCTCTAGAAGACAAGGTCAAAGCCCTGTGTGCT
GAGGCTGACCGCTGCAACAGTCCCACCCCTCTGAGTGCAACACAGATTCAAGTGAAGCGAGAGGAAGTGAATTACA
AACTGGGAGCAGATCCGCACCTTGGCGGCAGAGAGACATGCACGGCTCAATGATTCATACAGGCTTCAACGCTTC
CTTGCTGACTTCCGTGACCTCACCAGCTGGGTGACTGAGATGAAAGCCCTCATCAATGCAGATGAGCTTGCCAGT
GATGTGGCTGGGGCTGAAGCCCTGCTAGATAGACACCAAGAGCACAAGGGTGAATTTGATGCCCATGAAGACAGC
TTCAAATCTGCAGATGAATCTGGACAGGCACTGCTTGCTGCTGGTCACTATGCCTCAGATGAAGTGAGGGAGAAG
CTGACCGTCTTTCCGAGGAGAGAGCGGCGCTGCTGGAGCTGTGGGAGCTGCGCAGGCAGCAGTACGAGCAGTGC
ATGGACCTGCAGCTCTTCTACCGGGACACTGAGCAGGTGGACAACCTGGATGAGCAAGCAGGAGGCGTTCCTGTTG
AATGAAGACTTGGGAGATTTCTTGATAGTGTGGAAGCGCTTCTTAAGAAGCACGAAGACTTTGAGAAATCCCTT
AGTGCCCAAGGAGGAAAAGATTACAGCATTAGATGAATTTGCAACCAAGCTAATTCAGAACAACCACTATGCAATG
GAAGATGTGGCCACTCGCCGAGACGCTCTGTTGAGCCGCGCAATGCCCTTCACGAGAGAGCCATGCGTCGCCGG
GCCCAGCTAGCCGATTCTTTCCATCTGCAGCAGTTTTTCCGTGATTCTGATGAGCTCAAGAGTTGGGTGAATGAG
AAGATGAAAACCTGCCACAGATGAAGCTTATAAAGATCCATCCAACCTACAAGGAAAAGTACAGAAGCATCAGGCT
TTTGAGGCTGAGCTCTCAGCAAACAGAGCCGAATTGATGCCTTGGAGAAAGCTGGCCAAAAGCTGATTGATGTC
AACCCTATGCCAAGGATGAAGTGGCAGCTCGTATGAATGAGGTGATCAGTTTGTGGAAGAACTGCTAGAGGCC
ACTGAACTGAAAGGAATAAAGCTTCGTGAAGCCAACCAGCAACAGCAATTTAATCGCAATGTTGAGGATATTGAA
TTGTGGCTATATGAAGTAGAAGGTCACTTGGCTTCGGATGATTACGGCAAAGATCTTACCAATGTGCAGAACCTC
CAGAAGAAACATGCCCTGCTAGAGGCAGATGTGGCTGCTCACCAGGACCGAATTGATGGCGTCAACATTACAGGCC
CGCCAGTTCCAAGATGCTGGCCATTTTGATGCAGAAAACATCAAGAAGAAACAGGAAGCCCTCGTGGCTCGCTAT
GAGGCACTCAAGGAGCCCATGTTTGCCCGGAAGCAGAAGCTGGCCGATTCTCTGCGGTTGCAGCAGCTCTTCCGG
GATGTTGAGGATGAGGAGACGTGGATTTCGAGAGAAAGAGCCCATTGCCGCATCTACCAACAGAGGTAAGGATTTA
ATTGGGGTCCAGAATCTGCTAAAAGAAACATCAAGCCTTACAAGCAGAAATTGCTGGACATGAACCACGCATCAAA
GCAGTTACACAGAAGGGGAATGCCATGGTGGAGGAAGGCCATTTTGTGCTGCAGAGGATGTGAAGGCCAAGCTTCAC
GAGCTGAACCAAAAGTGGGAGGCACTGAAAGCAAAAGCTTCCAGCGTCCGGCAGGACCTGGAGGACTCTCTGCAG
GCCCAGCAGTACTTTGCTGATGCTAACGAGGCTGAATCCTGGATGCGGGAGAAGGAACCCATTGTGGGCAGCACT
GACTATGGCAAGGACGAAGACTCTGCTGAGGCTCTACTGAAGAAACACGAAGCTTTGATGTGAGATCTCAGTGCC
TACGGCAGCAGCATCCAGGCTTTGCGAGAACAAGCACAGTCTGCCGGCAACAAGTGGCCCCACGGATGATGAG
ACTGGGAAGGAGCTGGTCTTGGCTCTCTACGACTATCAGGAGAAGAGTCCCCGAGAGGTACCATGAAGAAGGGA
GATATCCTTACCTTACTCAACAGCACCAACAAGGATTGGTGGAAAGTGAAGTGAACGATCGTCAGGGTTTTGTG
CCGGCTGCGTACGTGAAGAAAATTGGACCCCGCCAGTCAGCCTCCCGGGAGAATCTCCTGGAGGAGCAAGGCAGC
ATAGCACTGCGGCAGGAGCAGATTGACAATCAGACACGCATAACTAAGGAGGCCGGCAGTGTATCTCTGCGTATG
AAGCAGGTGGAAGAACTATATCATTCTCTGCTGGAAGTGGGTGAGAAGCGTAAAGGCATGTTGGAGAAGAGTTGC
AAGAAGTTTTATGTTGTTCCGTGAAGCGAATGAAGTACAGCAATGGATCAATGAGAAGGAAGCCGCTCTGACAAGT
GAGGAGGTGCGAGCAGACTTGGAGCAGGTTGAGGTGCTCCAGAAGAAGTTTGATGACTTCCAGAAGGACCTGAAG
GCCAATGAGTCACGGTTGAAGGACATTAACAAGGTAGCTGAAGACCTGGAGTCTGAAGGTCTTATGGCAGAGGAG

818/2777
FIGURE 726B

GTGCAGGCTGTGCAACAACAGGAAGTGTATGGCATGATGCCAGGGATGAAACTGATTCCAAGACAGCCTCCCCG
TGGAAGTCTGCTCGTCTGATGGTTACACCGTGGCCACCTTTAATTCCATCAAGGAGCTGAATGAGCGCTGGCGG
TCCCTACAGCAGCTGGCCGAGGAACGGAGCCAGCTCTTGGGCAGCGCCCATGAAGTACAGAGGTTCCACAGAGAT
GCTGATGAAACCAAGAATGGATTGAAGAGAAGAATCAAGCTCTAAACACAGACAATTATGGACATGATCTCGCC
AGTGTCCAGGCCCTGCAACGCAAGCATGAGGGCTTCGAGAGGGACCTTGCGGCTCTCGGTGACAAGGTAACTCC
CTTGGTGAAACAGCAGAGCGCCTGACCCAGTCCCATCCCGAGTCAGCAGAAGACCTGCAGGAAAAGTGCACAGAG
TTAAACCAGGCCTGGAGCAGCCTGGGGAAAACGTGCAGATCAGCGCAAGGCAAAGTTGGGTGACTCCACGACCTG
CAGCGCTTTCCTTAGCGATTTCCGGGACCTCATGTCTTGATCAATGGAATACGGGGGTTGGTGTCTCAGATGAG
CTAGCCAAGGATGTCACCGGAGCTGAGGCATTGCTGGAGCGACACCAGGAACACCGGACAGAAATCGATGCCAGG
GCTGGCACTTTCCAGGCATTTGAGCAGTTTGGACAGCAGCTGTTGGCTCACGGACACTATGCCAGCCCTGAGATC
AAGCAGAACTTGATATTCTTGACCAGGAGCGTGCAGACCTGGAGAAGGCCTGGGTTACAGCGCAGGATGATGCTG
GATCAGTGCCTTGAAGTGCAGCTGTTCCATCGGGACTGTGAGCAAGCTGAGAAGTGGATGGCTGCCCGGGAGGCC
TTCTTGAATACCGAAGACAAAGGAGACTCACTGGACAGCGTAGAGGCTCTGATCAAAAAACATGAAGACTTTGAC
AAAGCGATTAACGTCCAGGAAGAGAAGATTGCTGCTCTGCAGGCCTTGCCGACCAGCTCATCGCTGCCGGCCAT
TATGCCAAGGGAGACATTTCTAGCCGGCGCAATGAGGTCTTGGACAGGTGGCGACGTCTGAAAGCCCAGATGATT
GAGAAAAGGTCAAAGCTAGGAGAATCTCAAACCTCCAACAGTTTACGCCGGGATGTGGATGAGATTGAGGCTTGG
ATCAGTGAAAAATTGCAACAGCGAGTGATGAGTCGTACAAGGATCCCACCAACATCCAGAGCAAGCACCAGAAG
CACCAGGCTTTTGAAGCAGAGCTGCATGCCAACGCTGACCGGATCCGTGGGGTTATCGACATGGGCAACTCCCTC
ATTGAACGTGGAGCCTGTGCCGGCAATGAGGATGCTGTCAAGGCCGCTGGCTGCCTTAGCTGACCAGTGGCAA
TTCTTGGTGCAAAAGTCAGCGGAAAAGAGCCAGAACTGAAAGAAGCCAACAAGCAGCAGAACTTCAACACAGGG
ATCAAGGACATTGCATTCTGGCTGTCTGAGGTGGAGGCCCTGTGGCATCCGAAGATTATGGCAAAGACCTGGCT
TCTGTGAACAACCTGCTGAAAAAGCATCAACTGCTGGAAGCAGATATATCTGCCCATGAGGATCGCCTGAAGGAC
CTGAACAGCCAGGCAGACAGCCTGATGACCAGCAGTGCCCTTGACACCTCCCAAGTAAAGGACAAGAGGGACACC
ATCAACGGGCGCTTCCAGAAGATCAAGAGCATGGCGGCCCTCCCGCGAGCCAAGCTGAATGAATCCCATCGCCTG
CACCAGTTCTTCCGGGACATGGATGACGAGGAGTCTGGATCAAGGAGAAGAAGCTGCTGGTGGGCTCAGAGGAC
TACGGCCGGGACCTAACTGGCGTGCAGAACCTGAGGAAGAAGCACAAGCGGCTGGAAGCAGAACTGGCTGCGCAT
GAGCCGGCTATTACGGGTGTCTTGGACACTGGCAAGAAGCTGTCCGATGACAACACCATCGGGAAAGAGGAGATC
CAGCAGCGGCTGGCGCAGTTTGTGGAGCACTGGAAAGAGCTGAAGCAGCTGGCAGCTGCCCGGGGTACAGCGGCTG
GAAGAGTCCTTGGAATATCAGCAGTTTGTAGCCAATGTGGAAGAGGAAGAAGCCTGGATCAATGAGAAAATGACC
CTGGTGGCCAGCGAAGATTATGGCGACACTCTTGCCGCCATCCAGGGCTTACTGAAGAAACATGAAGCTTTTGAG
ACAGCCTTACCGTCCACAAGGATCGCGTGAATGATGTCTGCACCAATGGACAAGACCTCATTAGAAGAACAAT
CACCATGAGGAGAACATCTCTTCAAAGATGAAGGGCTGAACGGGAAAGTGTGAGACCTGGAGAAAGCTGCAGCC
CAGAGAAAGGCGAACGTGGATGAGAACTCGGCCCTTCCTTCAAGTTCAACTGGAAGGCGGACGTGGTGGAGTCTTGG
ATCGGTGAAAAGGAGAACAGCTTGAAGACAGATGATTATGGCCGAGACCTGTCTTCTGTGCAGACGCTCCTCACC
AAACAGGAACTTTTGACGCTGGGCTGCAGGCCCTCCAGCAGGAAGGCATTGCCAACATCACTGCCCTCAAAGAT
CAGCTTCTCGCCGCCAAACACGTTTCAAGTCCAAGGCCATCGAGGCCGCGCACGCTCCCTCATGAAGAGGTGGAGC
CAGCTTCTGGCCAACCTCAGCCGCCCCGAAGAAGAAGCTTCTGGAGGCTCAGAGTCACTTCCGCAAGGTGGAGGAC
CTCTTCTGACCTTCCGCAAAAAGGCTTCTGCCTTCAACAGCTGGTTTGAAAATGCAGAGGAGGACTTAACAGAC
CCCCTGCGCTGCAACTCCTTGGAAGAAATCAAAGCTTTGCGCGAGGCCACGACGCTTCCGCTCCTCCCTCAGC
TCTGCCAGGCTGACTTCAACCAGCTGGCCGAGCTGGACCGCCAGATCAAGAGCTTCCGCGTAGCCTCCAACCCC
TACACCTGGTTTACCATGGAGGCCCTGGAGGAGACCTGGAGGAACCTACAGAAAATCATCAAGGAGAGGGAGCTG
GAGCTGCAGAAGGAACAGCGGCGGCAGGAGGAGAACGACAAGCTGCGCCAGGAGTTTGCCAGCACGCCAACGCC
TTCCACCAGTGGATCCAAGAGACCAGGACATACCTCCTCGATGGGTCTGTATGGTGAAGAGTCGGGGACCCTC
GAATCCCAGCTTGAAGCTACCAAACGCAAGCACCAGGAAATCCGAGCCATGAGAAGTCAGCTCAAAAAGATCGAG
GACCTGGGGGCCGCCATGGAGGAGGCCCTCATCCTGGACAACAAGTACACGGAGCACAGCACCCTGGGCCTCGCC
CAGCAGTGGGACCAGCTGGACCAGCTGGGCATGCGCATGCAGCACAACCTGGAGCAGCAGATCCAGGCCAGGAAC
ACAACAGGTGTGACTGAGGAGGCCCTCAAAGAATTCAGCATGATGTTTAAACACTTTGACAAGGACAAGTCTGGC
AGGCTGAACCATCAGGATGGCAAATCTTGCTGCGCTCCCTGGGCTATGACCTGCCCATGGTGGAGGAAGGGGAA

819/2777
FIGURE 726C

CCTGACCCTGAGTTCGAGGCAATCCTGGACACGGTGGATCCGAACAGAGATGGCCATGTCTCCTTGCAAGAATAC
ATGGCTTTCATGATCAGCCGCGAAACTGAGAACGTCAAGTCCAGCGAGGAGATTGAGAGCGCCTTCCGGGCCCTC
AGCTCAGAGGGAAAGCCTTACGTGACCAAGGAGGAGCTCTACCAGAACCTGACCCGGGAACAAGCCGACTACTGC
GTCTCCCACATGAAGCCCATCGTGGACGGCAAGGGCCGCGAGCTCCCCA'CCGCGTTCGACTACGTGGAGTTCACC
CGCTCGCTTTTCGTGAACTGAGCCACTCCCTGGGTCACCCACCCCTCGCTGCTTGCCCTGCGTCGCCTTGCTGCA
TGTCCGCTCCTCTGTGTGCTCTCACTTTCCACTGTAACCTTAAGCCTGCTTAGCTTGGAATAAGACTTAGGAGAA
AATGGTGCTTCACTAACCCGCTTCCGGTCCAGTCACAATCATCATGTCACTGTGGGACCCAGATCTGTGTCTTGA
AGCAGCTGCCCTCATTCCGACTTCAGAAAATCGAAGCAGCTGGCGCCTCCCCTTCGGAATTC

820/2777
FIGURE 727

MDPSGVKVLETAEDIQERRQQVLDRYHRFKELSTLRRQKLEDSYRFQFFQRDAEELEKWIQEKLQIASDENYKDP
TNLQGLQKHQAFEAQVQANSQAIVKLDETGNLMISEGHFASETIRTRLMELHRQWELLLEKMREKGIKLLQAQN
LVQYLRECEDVMDWINDKEAIVTSEELGQDLEHVEVLQKKFEEFQTDMAAHEERVNEVNQFAAKLIQEQHPPEEL
IKTKQDEVNAAWQRLKGLALQRQGLFGAAEVQRFNRDVDETISWIKKEQLMASDDFGRDLASVQALLRKHEGL
ERDLAALEDKVKALCAEADRLQSSHPLSATQIQVKREELITNWEQIRTLAAERHARLNDSYRLQRFADFRDLTS
WVTEMKALINADELASDVAGAEALLDRHQEHKGEIDAHEDSFKSADESGQALLAAGHYASDEVREKLTVLSEERA
ALLELWELRRQQYEQCMDLQLFYRDTEQVDNWMASKQEAFLNEDLGDFLDSVEALLKKHEDFEKSLSAQEEKITA
LDEFATKLIQNNHYAMEDVATRRDALLSRNALHERAMRRRAQLADSFHLQQFFRDSDELKSWVNEKMKMTATDEA
YKDP SNLQGVKQKHQAFEAELSANQSRIDALEKAGQKLDVNHYAKDEVAARMNEVISLWKKLLEATELKGIKLR
EANQQQQFNRRVEDIELWLYEVEGHLASDDYGKDLTNVQNLQKKHALLEADVAAHQDRIDGVTIQAQRFQDAGHF
DAENIKKKQEALVARYEALKEPMVARKQKLIADSLRLQQLFRDVEDEETWIREKEPIAASNTRGKDLIGVQNLKK
HQALQAEIAGHEPRIKAVTQKGNAMVEEGHFAAEDVKAKLHELNOKWEALKAKASQRRQDLEDLSLQAQQYFADAN
EAESWMREKEPIVGSTDYGDDEDSAEALLKKHEALMSDLSAYGSSIQALREQAQSCRQQVAPTDDDETGKELVLAL
YDYQEKSPREVTMKGKDILTLLNSTNKDWWKVEVNDRQGFVPAAYVKKLDPAQSASRENLLLEEQGSIALRQEQID
NQTRITKEAGSVSLRMKQVEELYHSLLELGEKRGKMLEKSCKKFMFLFREANELQQWINEKEAALTSEEVGADLEQ
VEVLQKKFDDFQKDLKANESRLKDINKVAEDLESEGLMAEEVQAVQQQEVYGMMPRDETDSTASPWKSARLMVH
TVATFNSIKELNERWRSLLQQLAEERSQLLGSAAHEVQRFHRDADETKEWIEEKNQALNTDNYGHDLASVQALQRKH
EGFERDLAALGDKVNSLGETAERLTQSHPEAEDLQEKCTELNQAWSLGRADQRKAKLGSDHDLQRFLSDFRD
LMSWINGIRGLVSSDELAKDVTGAEALLERHQEHRTIDARAGTFQAFEQFGQQLLAAGHYASPEIKQKLDILDQ
ERADLEKAWVQRRMMLDQCLELQLFHRDCEQAENWMAAREAFNTEDKGDSDLDSVEALIKKHEDFDKAINVQEEK
IAALQAFADQLIAAGHYAKGDISSRRNEVLDRWRRLKAQMIEKRSKLGESQTLQQFSRDVDEIEAWISEKLQTAS
DESYKDPTNIQSKHQKHQAFEAELHANADRIRGVIDMGNSLIERGACAGNEDAVKARLAALADQWQFLVQKSAEK
SQKLKEANKQONFNTGIKDIAFWLSEVEALLASEDYGKDLASVNNLLKKHQLLEADISAHEDRLKDLNSQADSLM
TSSAFDTSQVKDKRDTINGRFQKIKSMAASRRAKLNESHRLHQFFRDMDEESWIKEKLLVGSEDYGRDLTGVO
NLRKKHKRLEAELAAHEPAIQGVLDTGKKLSDDNTIGKEEIQORLAQFVEHWKELKQLAAARGQRLEESLEYQQF
VANVEEEEAWINEKMTLVASEDYGDTLAAIQGLLKKHEAFETAFTVHKDRVNDVCTNGQDLIKNNHHEENISSK
MKGLNGKVSLEKAAAQRKANVDENSAFLQFNWKADVVESSWIGEKENSLK

821/2777
FIGURE 728A

GCCGTGGCTCCGGTAGCAGCAAGTTCGAACCCCGCTCCCGCTCCGTTCTCGCTCCTTCGGCCCTTGGGC
CTCCAAACACCAGTCCCCGGCAGCTCGTTGCGCATTCGCTCTCCCCGCCACCAGGATGCGGTAACCGAGAAGG
ATCTAGCTGAGGACGCGCCTTGGAAGAAGATCCAGCAGAACACGTTACACGCTGGTGCAACGAGCACCTCAAGT
GCGTGAACAAACGCATCGGCAACCTGCAGACCGACCTGAGCGACGGGCTGCGGCTCATCGCGCTGCTCGAGGTGC
TCAGCCAGAAGCGCATGTACCGCAAGTACCATCAGCGGCCACCTTTCCGCAGATGCAGCTCGAGAATGTGTCCG
TGGCGCTCGAGTTCCTGGACCGTGAGAGCATCAAGCTCGTGTCCATCGATAGCAAAGCCATTGTGGATGGGAACC
TGAAGCTCATCTTGGGTCTGGTGTGGACGCTGATCCTCCACTACTCCATCTCCATGCCCCGTGTGGGAGGATGAAG
GGGATGATGATGCCAAGAAGCAGACGCCAAAGCAGAGGCTGCTGGGGTGGATTGAGAACAAGATCCCCTACTTGC
CCATCACCAACTTTAACCAGAACTGGCAAGACGGCAAAGCCCTGGGAGCCCTGGTAGACAGCTGTGCTCCAGGTC
TGTGCCCAGACTGGGAATCCTGGGACCCGCAGAAGCCTGTGGATAATGCACGAGAAGCCATGCAGCAGGCAGATG
ACTGGCTGGGTGTCCACAGGTCATCACTCCTGAAGAAATCATTACCCGGATGTGGACGAGCACTCAGTTATGA
CTTACCTGTCCAGTTCCCCCAAAGCCAAGCTCAAGCCGGGGGCTCCTCTCAAACCCAAACTCAACCCGAAGAAAG
CCAGGGCCTATGGCAGAGGAATCGAGCCCACTGGAAACATGGTGAAGCAGCCAGCCAAGTTCACTGTGGACACCA
TCAGCGCCGGGCAAGGAGACGTGATGGTGTGTTGTTGAGGACCCAGAAGGGAACAAAGAGGAGGCACAAGTGACCC
CTGACAGCGACAAGAACAAGACATACTCTGTGGAGTATCTGCCCAAGGTCACCGGGCTACACAAAGTCACAGTCC
TCTTTGCAGGACAGCACATCTCCAAGAGCCCATTTGAAGTGAGTGTGACAAGGCCCCAGGGAGATGCCAGTAAAG
TCACTGCAAAAGGTCCAGGGTTGGAAGCTGTAGGGAACATCGCCAATAAGCCACCTACTTTGACATCTATACGG
CAGGAGCTGGTGTGGGTGACATTGGTGTGGAGGTGGAAGATCCCCAGGGGAAGAACACCGTGAGTTGCTCGTGG
AAGACAAAGGAAACCAGGTGTATCGATGTGTGTACAAACCCATGCAGCCTGGCCCTCACGTGGTCAAGATCTTCT
TTGCTGGGGACACTATTCCTAAGAGTCCCTTCGTTGTGTCAGGTTGGGGAAGCCTGCAATCCAAATGCCTGCCGGG
CCAGTGGCCGAGGCCCTACAACCCAAAGGCGTCCGTATCCGGGAGACCACAGATTTCAAGGTTGACACCAAAGCTG
CAGGAAGTGGGGAGCTCGGGGTAACCATGAAGGTCCTAAGGGTCTGGAGGAGCTGGTGAAGCAGAAAGACTTTC
TGGATGGGGTCTACGCATTGAGTATTACCCAGCACCCCGGGGAGATACAGCATTGCCATCACATGGGGGGGAC
ACCACATTCCAAAGAGCCCCCTTTGAAGTTCAAGTTGGCCCTGAAGCGGGTATGCAGAAAGTCCGTGCTTGGGGCC
CTGGGCTCCATGGTGGGATTGTGCGGCGGTGACCGGACTTCGTGGTAGAATCCATTGGCTCTGAAGTGGGGTCTC
TGGGGTTTGCCATTGAAGGCCCTCTCAGGCAAAGATTGAGTACAACGACCAGAATGATGGATCGTGTGATGTCA
AATACTGGCCCAAGGAGCCTGGCGAATATGCTGTTACATCATGTGTGACGACGAAGACATCAAGGACAGCCCCGT
ACATGGCCTTCATCCACCCAGCCACGGGAGGCTACAACCTGATCTGGTTCGAGCATACGGGCCAGGTTTGGAGA
AATCTGGATGCATTGTCAACAACCTGGCCGAGTTCACTGTGGATCCTAAGGATGCTGGAAAAGCTCCCTTAAAGA
TATTTGCTCAGGATGGGGAAGGCCAACGCATTGACATCCAGATGAAGAACCGGATGGACGGGCACATATGCATGCT
CATAACCCCGGTGAAGGCCATCAAGCACACCATTGCTGTGGTCTGGGGAGGCGTGAACATCCCGCACAGCCCCCT
ACAGGGTCAACATCGGGCAAGGTAGCCATCCTCAGAAGGTCAAAGTGTTTGGGCCAGGTGTGGAGAGAAGTGGTC
TGAAGGCAAATGAACCTACACACTTCACGGTGGACTGTACTGAGGCTGGGGAAGGTGATGTCAGTGTGTCATT
AGTGTGATGCCCCGGGTGTTAAGTGAAGATGAGGAAGACGTGGATTTTGACATTATTACAAATGCCAATGATACGT
TCACAGTCAAATATGTGCTCCTGCTGCTGGGCGATACACTATCAAAGTTCTCTTTGCATCTCAGGAAATCCCCG
CCAGCCCTTTCAGAGTCAAAGTTGACCCTTCCACGATGCCAGCAAAGTGAAGGCAGAAGGCCAGGGCTCAGCA
AAGCAGGTGTGGAAAATGGGAAAACCGACCCACTTCACTGTCTACACCAAGGGGGCTGGGAAAAGCCCCGCTCAACG
TGCAGTTCAACAGCCCTCTTCTTGGCGATGCAGTGAAGGATTTGGATATCATCGATAATTATGACTACTCTCACA
CGGTTAAATATACACCCACCCAAACAGGGCAACATGCAGGTTCTGGTGACTTACGGTGGCGATCCCATCCCTAAAA
GCCCTTTCACTGTGGGTGTTGCTGCACCGCTGGATCTGAGCAAGATAAACTCAATGGGCTGGAAAACAGGGTGG
AAGTTGGGAAGGATCAGGAGTTACCGTTGATACCAGGGGGGAGGAGGCCAGGGGAAGCTGGACGTGACAATCC
TCAGCCCCCTCTCGGAAGGTCGTGCCATGCCATAGTGACACCTGTGACAGGCCGGGAGAACAGCACGGCCAAGTTCA
TCCCTCGGGAGGAGGGGCTGTATGCTGTAGACGTGACCTACGATGGACACCCTGTGCCCGGGAGCCCCCTACACAG
TGGAGGCCTCGCTGCCACCAGATCCCAGCAAGGTGAAGGCCACGGTCCCGGCTCGAAGGTGGTCTCGTGGGCA
AGCCTGCCGAGTTACCATCGATACCAAAGGAGCTGGTACTGGAGGTCTGGGCTTAACGGTGGAAAGGTCCGTGCG
AGGCCAAAATCGAGTGCTCCGACAAATGGTGTGGGACCTGCTCCGTCTCTTACCTTCCACAAAAACCCGGGGAGT
ACTTCGTCAACATCCTCTTTGAAGAAGTCCACATACCTGGGTCTCCCTTCAAAGCTGACATTGAAATGCCCTTTG
ACCCCTCTAAAGTCGTGGCATCGGGGCCAGGTCTCGAGCACGGGAAGGTGGGTGAAGCTGGCCTCCTTAGCGTCA

822/2777
FIGURE 728B

ACTGCTCGGAAGCGGGACCGGGGGCCCTGGGCCTGGAAGCTGTCTCGGACTCGGGAACAAAAGCCGAAGTCAGTA
TTCAGAACAACAAAGATGGCACCTACGCGGTGACCTACGTGCCCCCTGACGGCCGGCATGTACACGTTGACCATGA
AGTATGGTGGCGAACTCGTGCCACACTTCCCCGCCCGGGTCAAGGTGGAGCCCGCGTGGACACCAGCAGGATCA
AAGTCTTTGGACCAGGAATAGAAGGGAAAAGATGTGTTCCGGGAAGCTACCACCGACTTTACAGTTGACTCTCGGC
CGCTGACCCAGGTTGGGGGTGACCACATCAAGGCCACATTGCCAACCCCTCAGGGGCCTCCACCGAGTGCTTTG
TCACAGACAATGCGGATGGGACCTACCAGGTGGAATACACACCCCTTTGAGAAAGGTCTCCATGTAGTGAGGTGA
CATATGATGACGTGCCTATCCCAAACAGTCCCTTCAAGGTGGCTGTCACTGAAGGCTGCCAGCCATCTAGGGTGC
AAGCCCAAGGACCTGGATTGAAAAGAGGCCCTTTACCAACAAGCCCAATGTCTTACCCTGGTTACCAGAGGCGCAG
GAATTGGTGGGCTTGGCATAACTGTTGAGGGACCATCAGAGTCGAAGATAAATTGCAGAGACAACAAGGATGGCA
GCTGCAGTGCTGAGTACATTCCCTTTCGCGCCGGGGGATTACGATGTTAATATCAGATATGGAGGAGCCACATCC
CTGGCAGCCCCCTTCAGGGTTCCCTGTGAAGGATGTTGTGGACCCAGCAAGGTCAAGATTGCCGGCCCCGGGCTGG
GCTCAGGCGTCCGAGCCCGTGTCTGCGAGTCCCTTACCGGTGGACAGCAGCAAGGCTGGCCTGGCTCCGCTGGAAG
TGAGGGTTCTGGGCCCACGAGGCTTGGTGGAGCCAGTGAACATGGTGGACAATGGAGATGGCACACACACAGTAA
CCTACACCCCATCTCAGGAGGGACCTTACATGGTCTCAGTTAAATATGCTGATGAAGAGATTCCCTCGCAGTCCCT
TCAAGGTCAAGGTCCCTTCCACATATGATGCCAGCAAAGTGACTGCCAGTGGCCCCGGCCTTAGTTCCTATGGTG
TGCTTGCCAGTCTACCTGTGGACTTTGCAATTGATGCCCGAGATGCCGGGAAGGCCTGCTTGCTGTTCAAATAA
CGGACCAAGAAGGAAAACCCAAAAGAGCCATTGTCCATGACAATAAAGATGGCACGTATGCTGTACCTACATCC
CCGACAAGACTGGGCGCTATATGATTGGAGTCACCTACGGGGGTGACGACATCCCACTTTCTCCTTATCGCATCC
GAGCCACACAGACGGGTGATGCCAGCAAGTGCTGGCCACGGGTCTGGAATCGCCTCCACTGTGAAAACCTGGCG
AAGAAGTAGGCTTTGTGGTTGATGCCAAGACTGCCGGGAAGGGTAAAGTGACCTGCACGGTTCTGACCCAGATG
GCACTGAGGCCGAGGCCGATGTCAATTGAGAATGAAGATGGAACCTATGACATCTTCTACACAGCTGCCAAGCCGG
GCACATATGTGATCTATGTGCGCTTCGGTGGTGTGATATTCTTAACAGCCCTTCACTGTGATGGCCACAGATG
GGGAAGTCACAGCCGTGGAGGAGGCACCGGTAAATGCATGTCCCCCTGGATTACAGGCCCTGGGTGACCGAAGAGG
CCTATGTCCAGTGAGTGACATGAACGGCCTGGGATTTAAGCCTTTTGACCTGGTCACTCCGTTTGCTGTGAGGA
AAGGAGAAATCACTGGAGAGGTCCACATGCCTTCTGGGAAGACAGCCACACCTGAGATTGTGGACAACAAGGACG
GCACGGTCACTGTTAGATATGCCCCCACTGAGGTGCGGCTCCATGAGATGCACATCAAATACATGGGCAGCCACA
TCCCTGAGAGCCCACTCCAGTTCTACGTGAACCTACCCCAACAGTGGAAGTGTTTCTGCATACGGTCCAGGCCCTCG
TGTATGGAGTGGCCAACAAAACCTGCCACCTTACCATCGTCACAGAGGATGCAGGAGAAGGTGGTCTGGACTTGG
CTATTGAGGGCCCCCTCAAAGCAGAAATCAGCTGCATTGACAATAAAGATGGGACATGCACAGTGACCTACCTGC
CGACTCTGCCAGGCGACTACAGCATTCTGGTCAAGTACAATGACAAGCACATCCCTGGCAGCCCCCTTACAGCCA
AGATCACAGATGACAGCAGGCGGTGCTCCCAGGTGAAGTTGGGCTCAGCCGCTGACTTCTGCTCGACATCAGTG
AGACTGACCTCAGCAGCCTGACGGCCAGCATTAAAGGCCCATCTGGCCGAGACGAGCCCTGTCTCCTGAAGAGGC
TGCCCAACAACCACATTGGCATCTCCTTCATCCCCCGGGAAGTGGGCGAACATCTGGTCAGCATCAAGAAAAATG
GCAACCATGTGGCCAACAGCCCCGTGTCTATCATGGTGGTCCAGTCGGAGATTGGTGACGCCCCGCCGAGCCAAAG
TCTATGGCCGCGGCTGTGAGAAAGCCGGACTTTTCGAGATGTCTGACTTCATCGTGACACAAGGGATGCAGGTT
ATGGTGGCATATCCTTGGCGGTGGAAGGCCCCAGCAAAGTGGACATCCAGACGGAGGACCTGGAAGATGGCACCT
GCAAAGTCTCCTACTTCCCTACCGTGCCTGGGGTTTATATCGTCTCCACCAAATTGCTGACGAGCACGTGCCTG
GGAGCCCATTACCGTGAAGATCAGTGGGGAGGGAAGAGTCAAAGAGAGCATCACCCGCACAGTCGGGCCCCGT
CCGTGGCCACTGTGCGGAGCATTTGTGACCTGAACCTGAAAATCCAGAAATCAACAGCAGTGATATGTGCGCCC
ACGTACACAGCCCCCTCTGGCCGTGTGACTGAGGCAGAGATTGTGCCATGGGGAAGAACTCACACTGCGTCCGGT
TTGTGCCCCAGGAGATGGGCGTGACACGGTCAGCGTCAAGTACCGTGGGCAGCACGTACCGGCAGCCCCCTTCC
AGTTACCGTGGGGCCACTTGGTGAAGGAGGCGCCACAAGGTGCGGGCAGGAGGCCCTGGCCTGGAGAGAGGAG
AAGCGGGAGTCCCAGCTGAGTTACGATTGGACCCGGGAAGCAGGCGCTGGAGGCCTCTCCATCGCTGTTGAGG
GCCCCAGTAAGGCCGAGATTACATTGATGACCATAAAAATGGGTGCTGCGGTGTATCTTATATTGCCCAAGAGC
CTGGTAACTACGAGGTGTCCATCAAGTTCAATGATGAGCACATCCCGGAAAGCCCTACCTGGTGCCGGTTCATCG
CACCTCCGACGACGCCCCGCCCTCACTGTTATGAGCCTTCAAGGAATCGGGATTAAAAGTTAACCAGCCAGCAT
CCTTTGCTATAAGGTTGAATGGCGCAAAGGCAAGATTGATGCAAAGGTGCACAGCCCTCTGGAGCCGTGGAGG
AGTGCCACGTGTCTGAGCTGGAGCCAGATAAGTATGCTGTTGCTTCATCCCTCATGAGAAATGGTGTCCACACCA

823/2777
FIGURE 728C

TCGATGTCAAGTTCAATGGGAGCCACGTGGTTGGAAGCCCCCTTCAAAGTGC GCGTTGGGGAGCCTGGACAAGCGG
GGAACCCCTGCCCTGGTGTCCGCCTATGGCACGGGACTCGAAGGGGGCACCACAGGTATCCAGTCGGAATTCTTTA
TTAACACCACCCGAGCAGGTCCAGGGACATTATCCGTCACCATCGAAGGCCCATCCAAGGTTAAATGGATTGCC
AGGAAACACCTGAAGGGTACAAAGTCATGTACACCCCCATGGCTCCTGGTAACTACCTGATCAGTGTCAAATACG
GTGGGCCCCAACCACATCGTGGGCAGTCCCTTCAAGGCCAAGGTGACAGGCCAGCGTCTAGTTAGCCCTGGCTCAG
CCAACGAGACCTCATCCATCCTGGTGGAGTCAGTGACCAGGTCTGTCTACAGAGACCTGCTATAGCGCCATTCCCA
AGGCATCCTCGGACGCCAGCAAGGTGACCTCTAAGGGGGCAGGGCTCTCAAAGGCCTTTGTGGGCCAGAAGAGTT
CCTTCCCTGGTGGACTGCAGCAAAGCTGGCTCCAACATGCTGCTGATCGGGGTCCATGGGCCACCACCCCTGCG
AGGAGGTCTCCATGAAGCATGTAGGCAACCAGCAATACAACGTCACATACGTCGTCAGGAGAGGGGCGATTATG
TGCTGGCTGTGAAGTGGGGGGAGGAACACATCCCTGGCAGCCCTTTTCATGTACAGTGCCTTAAACAGTTTTTC
TCAAATCCTGGAGAGAGTTCTTGTGGTTGCTTTTGTGCTTGTGTTGTAATTCATTTTATACAAAGCCCTCCAGCC
TGTTTGTGGGGCTGAAACCCCATCCCTAAATATTGCTGTTGTAAATGCCTTCAGAAATAAGTCCTAGACTGGA
CTCTTGAGGGACATATTGGAGAATCTTAAGAAATGCAAGCTTGTTCAGGGGGCTGAGAAGATCCTGAGTACACTA
GGTGCAAACCAGAACTCTTGGTGAACAGACCAGCCACTGCAGCAGACAGACCAGGAACACAATGAGACTGACAT
TTCAAAAAAACAAACTGGCTAGCCTGAGCTGCTGGTTCACTCTTCAGCATTTATGAAACAAGGCTAGGGGAAGA
TGGGCAGAGAAAAAGGGGACACCTAGTTTGGTTGTCATTTGGCAAAGGAGATGACTTAAATCCGCTTAATCTCT
TCCAGTGTCCGTGTTAATGTATTTGGCTATTAGATCACTAGCACTGCTTTACCGCTCCTCATCGCCAACACCCCC
ATGCTCTGTGGCCTTCTTACACTTCTCAGAGGGCAGAGTGGCAGCCGGGCACCCTACAGAACTCAGAGGGCAGA
GTGGCAGCCAGGCCACATGTCTCTCAAGTACCTGTCCCTCGCTCTGGTGATTATTTCTTGCAAGATCACCACA
CGAGACCATCCCGGCAGTCATGGTTTTGCTTTAGTTTTCCAAGTCCGTTTCAGTCCCTTCCTTGGTCTGAAGAAA
TTCTGCAGTGGCGAGCAGTTTCCCACTTGCCAAAGATCCCTTTTAACCAACACTAGCCCTTGTTTTTAACACACG
CTCCAGCCCTTCATCAGCCTGGGCAGTCTTACCAAAATGTTTAAAGTGATCTCAGAGGGGGCCCATGGATTAACGC
CCTCATCCCAAGGTCCGTCCCATGACATAACACTCCACACCCGCCCCAGCCAACCTTCATGGGTCACTTTTTCTGG
AAAATAATGATCTGTACAGACAGGACAGAATGAACTCCTGCGGCTCTTTGGCCTGAAAGTTGGGAATGGTTGGG
GGAGAGAAGGGCAGCAGCTTATTGGTGGTCTTTTCACCATTTGGCAGAAACAGTGAGAGCTGTGTGGTGCAGAAAT
CCAGAAATGAGGTGTAGGGAATTTTGCTGCCTTCTGTCAGACCTGAGCTGGCTTTGGAATGAGGTTAAAGTGTC
AGGGACGTTGCCTGAGCCCCAAATGTGTAGTGTGGTCTGGGCAGGCAGACCTTTAGGTTTTGCTGCTTAGTCCTGA
GGAAGTGGCCACTCTTGTGGCAGGTGTAGTATCTGGGGCGAGTGTGGGGGTAAAGGCCACCCCTACAGAAAGTG
GAACAGCCCGGACCTGATGTGAAAGGACCACGGGTGTTGTAAGCTGGGACCGGAACCAAACTGGAATCAAACGCG
ACTGTAAATTGTATCTTATAACTTATTAAATAAAACATTGCTCCGTAAAAA

824/2777
FIGURE 729

MPVTEKDLAEDAPWKKIQONTFTTRWCNEHLKCVNKRIGNLQTDLS DGLRLIALLEVL SQRMYRKYHQRP TFRQM
QLENVSVALEFLDRESIKLV SIDS KAIVDGNLKLILGLVWTLILHYSISMPVWEDEGDDDAKKQTPKQRLLGWIQ
NKIPYLPITNFNQNWQDGKALGALVDS CAPGLCPDWESWDPQKPVDNAREAMQQADDWLGV PQVITPEEI IHPDV
DEHSVMTYLSQFPKAKLKPGAPLKPKLNPKKARAYGRGIEPTGNMVKQPAKFTVDTISAGQGDVMVFVEDPEGNK
EEAQVTPDSDKNKTY SVEYLPKVTGLHKVTVLFAQGHISKSPFEVSVDKAQGDASKVTAKGPGLEAVGNIANKPT
YFDIYTAGAGVGDIGVEVEDPQ GKNTVELLVEDKGNQVYRCVYKPMQPGPHVVKIFFAGDTIPKSPFVVQVGEAC
NPNACRASGRGLQPKGVRIRETTFKVDTKAAGSGELGVTMKGPKGLEELVKQKDFLDGVYAFEYYPSTPGRYSI
AITWGGHHIPKSPFEVQVGPEAGMQKVRWGPGLHGGIVGRSADFVVE SIGSEVGS LGFAIEGPSQAKIEYNDQN
DGSCDVKYWPKEPGEYAVHIMCDDEDIKDSPYMAFIHPATGGYNPDLVRAYGPGLEKSGCIVNNLAEFTVDPKDA
GKAPLKIFAQDGEGQRIDIQMKNRMDGTYACSYTPVKAIKHTIAVWGGVNIPHSPYRVNIGQSGHPQKV KVF GP
GVERSGLKANEP THFTVDCTEAGEGDVSVGIKCDARVLSEDEEDVD FDI IHNANDTFTVKYVPPAAGRYTIKVL F
ASQEIPASPFVRVKVDP SHDASKVKAEGPGLSKAGVENGKPTHTFTVYTKGAGKAPLNQVFN SPLPGDAVKDLDIID
NYDYSHTVKYTP TQQGNMQVLVTYGGDPIPKSPFTVGVAAPLDLSKIKLNGLENRVEVGKDQEFTVDTRGAGGQG
KLDVTILSPSRKVVPCLVTPVTGRENSTAKFIPREEGLYAVDVTYDGHVPVPGSPYTVEASLPDP SKVKAHGPGL
EGGLVGKPAEFTIDTKGAGTGGLGLTVEGPCEAKIECSDNGDGTCSVSYLP TKPGEYFVNILFEEVHIPGSPFKA
DIEMPFDPSKVVASGPGLEHGKVGEAGLLSVNCSEAGPGALGLEAVSDSGTKAEVSIQNNKDGTYAVTYVPLTAG
MYTLTMKYGGELVPHFPARVKVEPAVDTSRIKVF GPGIEGKDVFREATTDF TVDSRPLTQVGGDHIAHIANPSG
ASTECFVDNADGT YQVEYTPFEKGLHVVEVTYDDVP IPNSPFKVAVTEGCQPSRVQAQGPGLKEAFTNKP NVFT
VVTRGAGIGGLGITVEGPSESKINCRDNKDGSCSAEYIPFAPGDYDVNITYGGAHIPGSPFRVPVKDVVDP SKVK
IAGPGLGSGVRARVLQSFTVDSSKAGLAPLEVRVLGPRGLVEPVNMVDNGDGTHTV TYTPSQEGPYMVS VKYADE
EIPRSPFKVKVLP TYDASKVTASGPG LSSYGVPASLPVDF AIDARDAGEGLLAVQITDQEGKPKRAIVHDNKDGT
YAVTYIPDKTGRYMIGVTYGGDDIPLSPYRIRATQTGDASKCLATGPGIASTVKTGEEVGFVVDAKTAGKGKVT C
TVLTPDGTEAEADVIENEDGT YDIFYTAAKPGTYVIYVREGGVDIPNSPFTVMATDGEVTAVEEAPVNACPPGFR
PWVTEEAYVPVSDMNGLGFKPFDLVIPFAVRKGEITGEVHMPSGKTATPEIVDNKDGTVTVRYAPTEVGLHEMHI
KYMGS HIPESPLQFYVNYPNSGVSAYGPGLVYGVANKTATFTIVTEDAGEGGLDLAIEGPSKAEISCIDNKDGT
CTVTYLP TLPGDYSILVKYNDKHIPGSPFTAKITDSDRRCSQVKLGSAADFLLDISETDLS SLTASIKAPSGRDE
PCLLRLPNNHIGISFIPREVGEHLVSIKKNGNHVANS PVSIMVVQSEIG

825/2777
FIGURE 730A

CTGAACTAGTTGCCAGTGATCTTGAAACGTGACAGTAACCAAGAGATAAATAGGTGACAATGACAGGAAAATTAG
ATGTAGTAAAAGAGAGTGTGTTGAGAGCAGAAGCTATGGCAACTAAAGACTGGATTTGAATCCTTCCTAGCTTGGT
GACATGAGCAAATTACTTGATTAAAGTGAGCATTTCCTCATCTGTACAGTGGAGATAACGATAATTGTGCCTGCT
AAGAAGAATTGCTGTGAAGATTAGTGAAATAATGCATGTAAAACATTTGGTACAGTATGTGACACATAGTACAAA
TAGTTTGCTAGGAAGATTGTTATTATTCTTCACCTGTGATATTGTGAAGTTTTTCATACAGCAAATTGGACATCAT
GAGATGGATTGATTAAATAAATAGATTTGAACTTCAAGGACTGGTAGTGTTCTTGCTTTGGAAAGAAGAACTTG
GTTTATCCTAATAATAGTAGGATAAATAATGGTGAAGTGATAGGTACAAGTAATAGTGTGTTATGATGCGCTGGTGA
TGATAGGAAAAGAAAGCCATTATATGGGCAAGAGCTAGAAGTAATAAAATGGTGCATTTTTTCAGTGATGTTTGGC
CTAIGTAGCTATTCTCTGATAACTATAAAAAATCCTTATTATTGAAGATTCTTCAGGAAAAAAAACCCCTTAGTCT
GAAACTTTAGCACCAATCCCCCTTGCCCCCATTGAAATACGTATTTTTTAAACATGGCTTTTGATAATGTGAGG
GTTTTTTCCTTTTTGCGATTTAGCAGTGTGATTGTGATTGCAGTAGTTGTGAGAGCATTAGAAGCAGCAGTCG
ATAGGAGGATGGAAGGTCTGGATGCCGCTTGCGGAGTTAGGAGATTGGCAGACTTACCCTGTACCACTCTAGCC
CTACTCCTTTGCCCAAGACAGAAACACACTGAGATGGATAGGAGAATATGAGCAGTTGATAGGAAAGTTCTCAGT
GGAGTCAGGATTTAGGTTAGGCCAGGAGATTGAGAATATAACAGTTTGTGTATGATGAAATGGCATATTTTCACAG
AATGCAGTAAAAGCAGGTAGGGTACAAGTGCAGCAACAGGAAGATGTCTTTTCTTCATTACAGCAAACACTTATTT
GAGAGCTTACCATGTGCTAGGCACATACAAAGATAAATAAGATGCCCTTGATGATCCTCTATTTAAAGGAGACAT
GTAAACAGGTTAACTTAGAGTAGAGATGGTGAATATGTGAACCTGAGGAAAGGAAGAAATAGATTAAATTATCTG
GAGAGAGAGGAAAAGTCAGCAGAATGGGGACGAGAATCTTTCGGAGCTCAGTGTTCTGATAGGAGTTATTTCTT
GGGCATAGGTTCCAAGTATTTTTCTAATATACCATAGAAGCCAGGAAAACCTTTCTTCTGTTATCTCAAATGATTT
AATTACTGACTTGAGTTTGTGTTGTCTCCTTAGACTTGTGCACCATGGACAATTTTGCTGAGGGAGATTTCACTG
TGGCGGATTATGCCTTGTTAGAAGATTGCCCTCACGTGGATGATTGTGTCTTTGCTGCTGAATTTATGAGCAATG
ATTATGTTTCGTGTGACTCAGCTTTACTGTGATGGGGTGGGTGTGCAATATAAAGATTATATCCAAAGTGAGAGGA
ATTTGGAATTTGACATCTGCAGTATATGGTGTAGTAAACCAATTTCTGTCTCTGCAAGATTATTGCGATGCCATTA
AAATAAACATCTTCTGGCCACTTCTGTTTCAACATCAAACAGTTCCGTAATATCACGATTGCATCCCTGTGTGG
ACGCCAACAAATTCACGTGCTTCTGAGATAAATTTGAAGAACTACAACATCTTGAGTTGATGGAAGATATTGTGG
ATTTGGCAAAGAAAGTTGCTAATGATTCATTCTTATTGGAGGCTTATTGAGAATTGGTTGTAAAATAGAAAATA
AAATCTTGGCAATGGAAGAAGCTCTGAATTGGATAAAATATGCAGGCGATGTAACAATTCTAACTAAATTAGGAT
CAATTGACAATTGTTGGCCTATGTTAAGTATTTTCTTTACTGAATACAAGTACCACATAACTAAAATTTGTAATGG
AAGACTGCAATTTGCTTGAAGAACTTAAACTCAAAGTTGTATGGATTGTATAGAGGAAGGAGAACTAATGAAAA
TGAAAGGAAATGAAGAGTTTTTCCAAAGAAAGATTTGATATAGCTATTATCTATTACACCAGAGCCATTGAATATA
GACCTGAAAACCTACCTTCTTTATGGTAACCGAGCTCTTTGTTTTCTTCGTACTGGACAGTTTAGAAATGCACTCG
GTGATGGAAAGAGAGCCACTATTCTGAAGAACACTTGGCCAAAGGGTCATTATCGTTATTGTGATGCTCTTTCTA
TGCTGGGGGAATATGACTGGGCCCTGCAAGCAAACATAAAAGCTCAAAAACCTCTGTAAAAATGACCCTGAGGGAA
TCAAGGATCTAATTCAGCAGCATGTAAAGTTACAAAACAAATAGAAGACCTACAAGGTGCAACAGCAAATAAGG
ATCCAATTAAGCCTTTTATGAAAACAGGGCCTACACACCTAGGAGTTTATCAGCACCTATATTTACTACTTCAC
TTAACCTTTGTGGAGAAGGAAAGAGATTTTCAGAAAAATTAATCACGAAATGGCCAACGGTGGTAATCAGAACTAA
AGGTGGCGGATGAGGCGTTGAAGGTAGATGATTGTGACTGTCATCCTGAATTTTACCACCATCAAGTCAGCCTC
CAAAACATAAAGGAAAACAAAAATCTCGAAACAATGAATCAGAAAAGTTTCAAGTTCTAGTTTACCATTGACTTTAC
CAGCAGATTTGAAGAACATCTTGAGAAACAGTTTTCTAAATCTTCAGAGCTGCACACCAGGATTTTGCTAATA
TAATGAAAATGCTGAGAAGCTTAATTCAAGATGGCTATATGGCCTTATTGGAGCAGCGTTGCCGAGCGCTGCAC
AGGCCTTTACAGAGTTGCTGAACGTTTAGATCCTCAAAAATAAAGCAATTGAACCTGGCCATGATTAACCTATG
TTTTGGTCGTCTATGGACTTGCCATTTCTCTCCTTGGAAATAGGACAGCCTGAGGAATTATCTGAAGCCGAAAACC
AGTTTAAGAGGATTATTGAACACTACCCCAAGTGAGGGCCTTGATTGCTTGGCCTACTGTGGAATTGAAAAAGTGT
ATTTGAAAAAAACAGATTTCTAGAAGCTCTCAATCACTTTGAGAAAGCAAGAACCTTGATTTATCGTCTTCCTG
GAGTGTTAACTTGCCCAAGAGTAATGTGATTATTGAAGAGTCTCAGCCACAAAAAATAAAGATGCTGTAGAGA
AATTTGTTGAAGAATGCAAGTTCCCTCCAGTGCCAGATGCCATTTGTTGCTATCAGAAGTGCCATGGATATTCTA
AGATCCAGATATACATAACTGATCCAGACTTTAAGGGTTTTATACGCATCAGCTGTTGCCAGTACTGTAAAAATAG
AATTTACATGAATTGCTGGAAGAAGTTAAAACTACAACCTTTAATGATAAAATTGACAAGGATTTTCTACAAG

826/2777
FIGURE 730B

GAATATGTCTTACCCCTGACTGTGAAGGTGTCATTTCTAAGATTATCATCTTCAGCAGTGGTGGTGAAGTTAAAT
GTGAATTTGAACACAAGGTCATAAAAGAAAAGGTTCTCTCAAGACCTATTCTGAAACAGAAATGTTCTAGCCTAG
AGAACTAAGACTGAAAGAAGACAAAAAATTGAAGAGAAAAGATCCAAAAAAGAAGCAAAAAAGTTAGCACAAAG
AAAGAATGGAGGAGGACTTAAGAGAAAAGTAATCCACCCAAAAATGAAGAGCAGAAAGAACTGTAGACAATGTTT
AGCGTTGTCAGTTCTTGATGACAGAATTCTACAGTGTATAAAGCAGTATGCTGACAAGATTAAATCCGGCATA
AGAATACAGCCATGCTTCTCAAAGAATTGCTTTCTTGAAAAGTTTTGAGCACAGAAGACTATACAACCTGTTTTT
CTAGCAGAAATTTCTAAATGAAGCAGTGGACTATGTTATTTCGCCACTTGATTCAAGAAAATAACAGAGTAAAGA
CAAGAATATTTCTGCATGTTTTGAGTGAGCTTAAAGAAGTGGAGCCCAAATTAGCCGCCTGGATCCAAAACTTA
ATAGCTTTGGCTTAGATGCCACAGGAACCTTTCTTTCTCGTTATGGAGCATCTCTTAACTGCTTGATTTTAGTA
TCATGACTTTCTCTGGAATGAGAAATATGGTCACAACTAGACTCTATAGAAGGAAAGCAACTTGATTATTTCT
CTGAGCCAGCATCATTGAAGGAAGCCCGTTGTTAATATGGCTGCTAGAAGAACACAGAGACAAGTTCCCAGCAT
TGCATAGTGCTTTAGATGAATTCCTTGATATAATGGACAGCCGCTGTACTGTGTTAAGGAAACAAGATAGTGGTG
AAGCACCGTTTAGTTCAACCAAGGTGAAAAACAAAAGCAAGAAAAAGAAGCCAAAGGATTCAAAGCCTATGTTAG
TTGGGTCTGGAACAACCTTCAGTAACTTCAAATAATGAGATCATCACTTCAAGTGAAGACCATAGCAATCGAAATT
CAGATTCTGCAGGCCCATTTGCAGTGCCTGACCATCTTCGGCAAGATGTAGAAGAATTCGAAGCTCTCTATGACC
AACACAGTAACGAATATGTTGTCCGCAATAAGAAGCTATGGGACATGAACCCAAAACAAAAATGTTCAACTCTAT
ATGATTACTTCTCTCAGTTTTTGGAGGAACATGGTCCCTTGGACATGAGTAACAAGATGTTCTCTGCAGAAATATG
AGTTTTTCCCAGAAGAACTCGACAGATACTAGAAAAAGCAGGAGGTTTAAACCTTTTCTCTTGGGATGCCCTC
GTTTTGTTGTGATTGACAACCTGTATTGCACTGAAGAAGGTTGCATCACGGCTCAAGAAAAAAGGAAGAAGAAAA
ACATTAACAAAGTAGAAGAAATTTCAAAGCAGGGGAGTATGTACGAGTTAACTACAACCTGAATCCAGCTG
CTAGGGAATTTAAACCAGATGTAAAGTCTAAACCAGTGTGAGATTATCTTCAGCACCAGCTTTTGAAAATGTGA
AACCCAAACCTGTGTCTGCAAATTTCTCCCAAGCCAGCTTGTGAAGATGTGAAGGCCAAACCAGTATCCGACAATT
CTTCTAGACAAGTTTCTGAGGATGGGCAACCCAAAGGGGTCTCTTCTAATTCTCCTAAACCAGGCTCTGAGGATG
CAAATTACAAGCGAGTCTCCTGTAATTTCCCCAAACCGGTTCTTGAGGATGTGAAACCAACTTATTGGGCTCAAT
CCCATTGGTTCACAGGATACTGTACGTATCTTCCCTTCCAGAGATTGATATCACCCAGACACCGCCAGCATACA
TAAACGTGTTACCAGGTTTGGCCAGTACACCAGCATATATACACCCTTGGCCAGCCTTTCTCCTGAATATCAGC
TACCAAGATCAGTACCAGTGGTGCCGTCTTTTGTAGCCAATGACAGAGCAGATAAAAATGCTGCTGCCTATTTTG
AGGGTCATCATTTGAATGCTGAGAATGTTGCTGGTCAACCAGATTGCCTCTGAAACACAGATCCTTGAGGGCTCTT
TGGGAATATCTGTAAAGTCACACTGCAGCACAGGTGATGCTCATAAGTCTGAGTGAATCAACAGAAATGATG
AGCACTGTGGAAATTTCTAACAACAAATGTGAAGTAATTCAGAAAGCACCAGTGCAGTAACAACATTCCACACG
TGCAGATGGTTGCCATACAGGTATCTTGGAAACATAATACACCAAGAAGTCAATACTGAGCCATATAATCCTTTTG
AGGAACGACAAGGGGAAATTTACGGATTGAAAAGGAGCACCAAGTATTACAAGACCAACTTCAAGAAGTGTATG
AAAATTATGAGCAGATAAACTTAAGGGCTTAGAAGAGACCAGGGACCTGGAAGAGAAGTTGAAAAGGCACTTAG
AAGAAAACAAGATCTCAAAGACGGAATTAGATTGGTTCTTCAAGATTGGAAGAGAAATTAAGAAATGGCAAC
AGGAAAAAAGAAATCCAAGAAAGACTAAAACTACTGAAGAAGAAATTAAGAAAGGTTTCAAATGCCAGTGAAA
TGTATACCCAGAAAAATGATGGAAAGGAAAGGAACATGAATTACATCTGGATCAGTCCCTTGAAATCAGCAACA
CACTTACAAATGAGAAAAATGAAAATAGAAGAGTATATAAGAAAGGGAAAGAGGATTATGAAGAGAGTCATCAGA
GAGCTGTGGCTGCAGAGGTATCCGTACTTGAACCTGGAAGGAGAGTGAAGTGTATAAGCTACAGATCATGGAGT
CACAAGCAGAAGCCTTTCTGAAGAAGCTGGGGCTGATTAGCCGTGATCCTGCAGCATATCCTGACATGGAGTCTG
ATATACGTTTCATGGGAATTGTTTCTTTCTAATGTTACAAAAGAAATGAGAAAGCAAAGTCTCAGTTTGAAGAAC
AAATTAAGGCAATTAAGAAATGTTTCTCGGCTCAGTGAACCTTCTAAAGTGCAGATTTCTGAGCTTTCAATTCCTG
CCTGTAACACGGTTTCATCCCGAGTTACTCCCTGAGTCTTCAGGCCACGATGGCCAAGGGCTTGTGACTTCTGCAA
GCGACGTGACTGGAACACACGACACTTCACAGGGATCCTAGTGTGTTCTCTGCTGGTGAATCCCCAGGGGAGG
CTCCTTCTGCGCTGTTGCCAGGGCCACCCCTGGTTCAGCCTGAAGCCACTCAGCTGACAGGGCCAAAACGGGCTG
GCCAGGCAGCTCTGTGACAACGAAGCCCTGTGGCTGATCGGAAGCAGCCTGTTCTCCAGGACGTGCTGCGCGTT
CAAGCCAGTCTCCAAAAAGCCGTTCAATAGTATTATTGAGCACCTGTGAGTGGTATTTCCCATGTTACAACAGCA
CTGAGCTTGCTGGTTTTATTAAAAAAGTGCGAAGCAAAAACAAGAACTCACTCTCAGGATTGAGTATTGATGAAA
TTGTCCAAAGAGTGACAGAACACATTCTAGATGAACAGAAAAAGAAAAAGCCAAACCCAGGAAAGGACAAGAGGA

827/2777
FIGURE 730C

CTTATGAGCCCAGCTCTGCCACCCCGTGACCAGGTCCTCCAGGGCTCACCTCGGTGGTTGTTGCACCATCAC
CCAAAACCAAGGGGCAGAAAGCAGAAGATGTCCCTGTGAGGATTGCACTGGGTGCAAGTTCCTGTGAAATATGCC
ACGAGGTGTTCAAATCAAAAAACGTGCGTGTGCTCAAATGTGGGCACAAGTATCACAAAGGGTGCTTTAAGCAGT
GGCTTAAAGGGCAGAGCGCTTGCCCGGCCTGCCAGGGTCGTGATCTCCTGACAGAAGAGTCACCTTCTGGAAGAG
GCTGGCCAGTCAGAATCAGGAGCTGCCTTCCTGCTCTTCTAGGTAGTCACACTTCACTAAAGTGTCAATCCACCA
GTGTGTTGAATCCGAAGAATGACAATTTTCTACCACTGGTGTAAAAAACAAACATTTGAAGACCCCTTGTGCATTG
TGTGTACAAAGCTAAATACATGGAAATCGTTAATATCGCTGATATTAAGTAATTTCCCACTCTGAGTGAATAC
TTTGATGATTGCCAACAGTGGCTAATAAAATGACGGCTACCACACTCATGGGTCACTGGGGCTGCGCAGGGCTCT
TTGAGGTGGGTGGCTTCTTTTGGAAAGTACTATGAACGTCTCGAAGCAGTATTCTAGTGATAAGAATTCTTAACA
TAGCCAAGCGCCCCACGTTTGTTCACGTTTGTTCCTTTTCTGTTTGAAAAACCTGTTCTGGTAGCTCCAC
AAGAGAGATGATACTGACTTTTTAAATTTTTTACAAGAGTCTGTATTCTGATATGCCTATATTTTTCTCAAAG
ATTCTGCATTTTAAGGATGGGCATAAGCAAACCTATATTTTAATAATTTATAGTTAATGTTAAATATTGGCTGAT
TTAGACCAAAAGATTCAAATCTCCTCTTTGTGAAATCCCATCTGCATTTGATTTTTTATTATTTTATGTTCCCC
GTTAGATTGTTTTAAGTGTGTGCTTTTCATCTTTTATAGATGTAATCTGATTTTCAAAAATCATTAACACTTTTT
AATTAGTATCGACTAAGACTTTTTCCCCCTGGAATCGAGGCTGTGTGTCCGTCATCCCAGCCCCCGTTGGAGCC
TGCTCTTTGAACTCCGCTGCCTTCCTTAGCAGCTTCTGTCTCTTCTGTGAGTCAGTCAGCGAGTGCTTGGGATC
CGCATCCAGCCGTGCTGAGCACACAACAGGCTGTGTGTGGAAATGGCCACCACCATTCTCCTTCCCCACCCACC
ACAAAAGAGAAGCTGTGTCTTTAGACAACCTGAGGTATCTGTGTTACAATCGTTCTGTGTTTGATATTTGTGT
AAAGTATGCATGCAGTCTTGTACTGTGACCTAAGAACAAAACCTGTAAGTGCATTAGAAACCATGAAAAAATTAGA
TATTGTTTTGTGACTTTTAGACAGTGGTAAATATAGAACCATGAATTCTGGTCACATTCCATTTCTCTCCACAT
GAAGGATCAAAAATGTTTTTCAATGTGTTCTTTGTTCCACTGGAACTTAGAGTCATGAGTTTATGAGCTGATT
TGGTCACCTTCCTCTGCCTTTGTTCACTGTGAGTTCTGATGTCTTAGTGACTTAGTTCTTAGAAGCTCACGCCTT
AGTTTGAAACAGATTCTCCACGGTGGTCCCCAAAACACTGTCTGCATATCCATAAGAATTGAGCGCTATGGGTGT
TAACGTGCATGAGGATCAGTTTGCAGCAGCAAGTACAAAAGGAGAAGAGGAACATCCGTTGAATGAGTGTGTTTT
GTACATAACTTCAGATACTTGTGAACATGCCTTATATTTGTCCAACAACCTGTCAGAATAAAGAACATTCTAAAT
GAG

828/2777
FIGURE 731

MDNFAEGDFTVADYALLED CPHVDDCVFAAEFMSNDYVRVTQLYCDGVGVQYKDYIQSERNLEFDICSIWCSKPI
SVLQDYCDAIKINIFWPLLFOHQNSSVISRLHPCVDANNSRASEINLKKLQHLELMEDIVDLAKKVANDSFLIGG
LLRIGCKIENKILAMEEALNWIYAGDVTILTKLGSIDNCWPMLSIFFTYKYHITKIVMEDCNLLEELKTQSCM
DCIEEGELMKMKGNEEF SKERFDIAIYYTRAIEYRPENYLLYGNRALCFLRTGQFRNALGDGKRATILKNTWPK
GHYRYCDALSMLGEYDQALQANIKAKQLCKNDPEGIKDLIQQHVKLQKQIEDLQGRRTANKDPIKAFYENRAYTPR
SLSAPIFTTSLNFVEKERDFRKINHEMANGGNQNLKVADEALKVDDCDCHPEFSPPSSQPPKHKGKQKSRNNESE
KFSSSSPLTLPADLKNILEKQFSKSSRAAHQDFANIMKMLRSLIQDGYMALLEQRCRSAAQAFTELLNGLDPQKI
KQLNLAMINYVLVVGGLAISLLGIGQPEELSEAENQFKRIIEHYPSGLDCLAYCGIGKVYLKKNRFLALNHFE
KARTLIYRLPGVLTWPTSNVIEESQPKIKMLLEKFVEECKFPVPDAICCYQKCHGYSKIQIYITDPDFKGF I
RISCCQYCKIEFHMNCWKKLKTTFNDKIDKDFLQIGCLTPDCEGVISKIIFSSGGEVKEFEHKKVIEKEVPPR
PILKQKCSSLEKLRLKEDKKLKRKIQKKEAKKLAQERMEEDLRESNPPKNEEQKETVDNVQRCQFLDDRILQCIK
QYADKIKSGIQNTAMLLKELLSWKVLSTEDYTTCFSSRNFLNEAVDYVIRHLIQENNRVKTRIFLHVLSELKEVE
PKLAAWIQKLN SFGLDATGTFFSRYGASLKLDFSIMTFLWNEKYGHKLDSIEGQLDYFSEPA SLKEARCLIWL
LEEHRDKFPALHSALDEFFDIMDSRCTVLRKQDSGEAPFSSTKVKNKSKKKKPKDSKPM LVSGTTSVTSNNEII
TSSDH SNRNSDSAGPFAVPDHLRQDV EEF EALYDQHSNEYVVRNKKLWDMNPKQK CSTLYDYFSQFLEE HGPLD
MSNMFS AEYEFFPEETRQILEKAGGLKPFLLGCPRFVVIDNCIALKKVASRLKKKKKKKNIKTKVEEISKAGEY
VRVKLQLNPAAREFKPDVKSKPVS DSSSAPAFENVKPKPVSANSPK PACEDVKAKPVS DNSSRQVSEDGQPKGVS
SNSPKPGSEDANYKRVSCNSPKPVLEDVKPTYWAQSHLV TGYCTYLPFQRFDITQTPPAYINVLPGLPQYTSIYT
PLASLSPEYQLPRSVPVVP SFVANDRADKNAAAYFEGHHLNAENVAGHQIASETQILEGSLGISVKSHCSTGDAH
TVLSESNRND EHCNSNNKCEVIPESTS AVTNIPHVMVAIQVSWNIIHQEVNTEPYNPFEE RQGEISRIEKEHQ
VLQDQLQEVYENYEQIKLKGLEETRDLEEKLRHLEENKISKTELDWFLQDLEREIKKWQOEKKEIQERLKS LKK
KIKKVSNASEMYTQKNDGKEKEHELHLDQSLEISNTLTNEKMKIEEYIKKGKEDYEESHQRAVA AEVSVLENWKE
SEVYKLQIMESQAEAF LKKLGLISRDPAAYPDMESDIRSWELFLSNVTKEIEKAKSQFEEQIKAIKNGSRLSELS
KVQISELSFPACNTVHPELLPESSGHDGQGLVTSASDVTGNHAALHRDPSVFSAGDSPGEAPSALLPGPPPGQPE
ATQLTGPKRAGQAAL SERSPVADRKQPVPPGRAARSSQSPKKPFNSIEHLSVVFPCYNSTELAGFIKKVRSKNK
NSLSGLSIDEIVQRVTEHILDEQKKKKPNPGDKRTEYEPSSATPVTRSSQGSPSVVVAPSPKTKGQKAEDVPVRI
ALGASSCEICHEVF KSKNVRVLKCGHKYHKGCFKQWLKGQSAC PACQGRD

829/2777
FIGURE 732A

CACACGGACTACAGGGGAGTTTTGTTGAAGTTGCAAAGTCCTGGAGCCTCCAGAGGGCTGTCGGCGCAGTAGCAG
CGAGCAGCAGAGTCCGCACGCTCCGGCGAGGGGCGAGAAGAGCGCGAGGGAGCGCGGGGCGAGCAGAAGCGAGAGCC
GAGCGCGGACCCAGCCAGGACCCACAGCCCTCCCCAGCTGCCAGGAAGAGCCCCAGCCATGGAACACCAGCTCC
TGTGCTGCGAAGTGGAACCATCCGCCGCGCTACCCCGATGCCAACCTCCTCAACGACCGGGTGTGCGGGCCA
TGCTGAAGGCGGAGGAGACCTGCGCGCCCTCGGTGTCTACTTCAAATGTGTGCGAGAAGGAGGTCTTGCCGTCCA
TGCGGAAGATCGTCGCCACCTGGATGCTGGAGGTCTGCGAGGAACAGAAGTGCAGGAGGAGGTCTTCCCGCTGG
CCATGAACCTACCTGGACCGCTTCTGTGCTGGAGCCCGTGAAAAAGAGCCGCTGCAGCTGCTGGGGGCCACTT
GCATGTTCTGTGGCCTCTAAGATGAAGGAGACCATCCCCCTGACGGCCGAGAAGCTGTGCATCTACACCGACAACCT
CCATCCGGCCCCGAGGAGCTGCTGCAAAATGGAGCTGCTCCTGGTGAACAAGCTCAAGTGGAACCTGGCCGCAATGA
CCCCGCACGATTTTCAATTGAACACTTCTCTCCAAAATGCCAGAGGCGGAGGAGAACAACAGATCATCCGCAAAAC
ACGCGCAGACCTTCGTTGCCCTCTGTGCCACAGATGTGAAGTTCATTTCCAATCCGCCCTCCATGGTGCGAGCGG
GGAGCGTGGTGCCCGCAGTGCAAGGCCTGAACCTGAGGAGCCCAACAACCTTCTGTCTACTACCGCCTCACAC
GCTTCTCTCCAGAGTGATCAAGTGTGACCCAGACTGCCTCCGGGCTGCCAGGAGCAGATCGAAGCCCTGCTGG
AGTCAAGCCTGCGCCAGGCCCCAGCAGAACATGGACCCCAAGGCCGCCGAGGAGGAGGAAGAGGAGGAGGAGGAGG
TGGACCTGGCTTGACACCCACCGACGTGCGGGACGTGGACATCTGAGGGCGCCAGGCAGGCGGGGCGCCACCGCC
ACCCGCAGCGAGGGCGGAGCCGGCCCCAGGTGCTCCCCTGACAGTCCCTCCTCTCCGGAGCATTTTGATACCAGA
AGGGAAAGCTTCATTCTCCTTGTGTGGTTGTTTTTCTTTGCTCTTTCCCTTCCATCTCTGACTTAAGCA
AAAGAAAAAGATTACCCAAAACTGTCTTTAAAGAGAGAGAGAGAAAAAAAATAGTATTTGCATAACCTGA
GCGGTGGGGGAGGAGGGTGTGCTACAGATGATAGAGGATTTTATACCCCAATAATCAACTCGTTTTTATATTAA
TGTAAGTTGTTTCTCTGTGTGAAGATAGGCATTAACACAAAGGAGGCGTCTCGGGAGAGGATTAGGTTCCATCCT
TTACGTGTTTTAAAAAAAAGCATAAAAACATTTTAAAAACATAGAAAAATTCAGCAAACCATTTTTTAAAGTAGAAG
AGGGTTTTAGGTAGAAAAACATATCTTGTGCTTTTCTTGATAAAGCACAGCTGTAGTGGGGTTCTAGGCATCTC
TGTAAGTTGCTTGCTCATATGCATGTAGTCACTTTATAAGTCAATTGTATGTTATTATATTCCGTAGGTAGATGTG
TAACCTCTTACCTTATTCATGGCTGAAGTCACCTCTTGGTTACAGTAGCGTAGCGTGGCCGTGTGCATGTCCTT
TGCGCCTGTGACCACCACCCCAACAAACCATCCAGTGACAAACCATCCAGTGGAGGTTTGTGCGGCACCAGCCAG
CGTAGCAGGGTTCGGGAAAGGCCACCTGTCCCACTCCTACGATACGCTACTATAAAGAGAAGACGAAATAGTGACA
TAATATATTCTATTTTTTATACTCTTCTTATTTTTTGTAGTGACCTGTTTATGAGATGCTGGTTTTCTACCCACGG
CCCTGCAGCCAGCTCACGTCCAGGTTCAACCCACAGCTACTTGGTTTTGTGTTCTTCTTCAATTTCTAAACCAT
CCATTTCCAAGCACTTTCAGTCCAATAGGTGTAGGAAATAGCGCTGTTTTTGTGTTGTGTGTCAGGGAGGGCAGTT
TTCTAATGGAATGGTTTTGGGAATATCCATGTACTTGTGTTGCAAGCAGGACTTTGAGGCAAGTGTGGGCCACTGTG
GTGGCAGTGGAGGTGGGGTGTGTTGGGAGGCTGCGTGCCAGTCAAGAAGAAAAAGGTTTTGCATTCTCACATTGCCA
GGATGATAAGTTTCTTTCTTTTAAAGAAGTTGAAGTTTAGGAATCCTTTGGTGCCAACTGGTGTGTTGAAA
GTAGGGACCTCAGAGGTTTACCTAGAGAACAGGTGGTTTTTAAAGGTTATCTTAGATGTTTACACCGGAAGGTT
TTTAAACACTAAAAATATATAATTTATAGTTAAGGCTAAAAAGTATATTTATTGCAGAGGATGTTTATAAGGCCAG
TATGATTTATAAATGCAATCTCCCCTTGATTTAAACACACAGATACACACACACACACACACACACACAAACC
TTCTGCCCTTTGATGTTACAGATTTAATACAGTTTTATTTTTAAAGATAGATCCTTTTATAGGTGAGAAAAAACAA
TCTGGAAGAAAAAAACCACACAAAGACATTGATTACGCTGTTTGGCGTTTCCAGAGTCATCTGATTGGACAGG
CATGGGTGCAAGGAAATTAGGGTACTCAACCTAAGTTCGGTTCCGATGAATTCCTATCCCTGCCCTTCCTTT
AAAAAAGTTAGTGACAAAATAGACAATTTGCACATCTTGGCTATGTAATTCCTGTAATTTTTATTAGGAAGTGT
TGAAGGGAGGTGGCAAGAGTGTGGAGGCTGACGTGTGAGGGAGGACAGGCGGGAGGAGGTGTGAGGAGGAGGCTC
CCGAGGGGAAGGGCGGTGCCACACCGGGGACAGGCCGAGCTCCATTTCTTATTGCGCTGTACCGTTGACT
TCCAGGCACGGTTTGAAATATTCACATCGCTTCTGTGTATCTTTTACATTGTTTGTGCTGCTATTGGAGGATCA
GTTTTTTGTTTTACAATGTCATATACTGCCATGTACTAGTTTTAGTTTTCTCTTAGAACATTGTATTACAGATGC
CTTTTTTGTAGTTTTTTTTTTTTTATGTGATCAATTTGACTTAATGTGATTACTGCTCTATTCCAAAAAGGTT
GCTGTTTACAATACCTCATGCTTCACTTAGCCATGGTGGACCCAGCGGGCAGGTTCTGCCTGCTTTGGCGGGCA
GACACGCGGGCGCGATCCACACAGGCTGGCGGGGGCGGCCCGAGGCCGCGTGCCTGAGAACCAGCGCCGGTGT
CCCCAGAGACCAGGCTGTGTCCTCTTCTCTTCCCTGCGCCTGTGATGCTGGGCACTTCATCTGATCGGGGGCGT
AGCATCATAGTAGTTTTTACAGCTGTGTTATCTTTGCGTGTAGCTATGGAAGTTGCATAATTATTATTATTATT

830/2777
FIGURE 732B

ATTATAACAAGTGTGTCCTTACGTGCCACCACGGCGTTGTACCTGTAGGACTCTCATTTCGGGATGATTGGAATAGC
TTCTGGAATTTGTTCAAGTTTTGGGTATGTTTAATCTGTTATGTACTAGTGTTCTGTTTGTATTGTTTTGTTAA
TTACACCATAATGCTAATTTAAAGAGACTCCAAATCTCAATGAAGCCAGCTCACAGTGCTGTGTGCCCCGGTCAC
CTAGCAAGCTGCCGAACCAAAAAGAAATTTGCACCCCGCTGCGGGCCCCACGTGGTTGGGGCCCTGCCCTGGCAGGGT
CATCCTGTGCTCGGAGGCCATCTCGGGCACAGGCCCACCCGCCCCACCCCTCCAGAACACGGCTCACGCTTACC
TCAACCATCCTGGCTGCGGCGTCTGTCTGAACCACGCGGGGGCCTTGAGGGACGCTTTGTCTGTGCTGATGGGGC
AAGGGCACAAGTCCTGGATGTTGTGTGTATCGAGAGGCCAAAGGCTGGTGGCAAGTGCACGGGGCACAGCGGAGT
CTGTCCTGTGACGCGCAAGTCTGAGGGTCTGGGCGGCGGGCGGCTGGGTCTGTGCATTTCTGGTTGCACCGCGGC
GCTTCCCAGCACCAACATGTAACCGGCATGTTTCCAGCAGAAGACAAAAGACAAACATGAAAGTCTAGAAATAA
AACTGGTAAAACCCCAAAAAAAAAAAAAAAAAA

831/2777
FIGURE 733

MEHQLLCCEVETIRRAYPDANLLNDRVLRAMLKAEETCAPSVSYFKCVQKEVLP SMRKIVATWMLEVCEEQKCEE
EVFPLAMNYLDRFLSLEPVKKSRLQLLGATCMFVASKMKETIPLTAEKLCIYTDNSIRPEELLQMELLLVNKLKW
NLAAMTPHDFIEHFLSKMPEAEENKQIIRKHAQTFVALCATDVKFISNPPSMVAAGSVVAAVQGLNLRSPNNFLS
YYRLTRFLSRVIKCDPDCLRACQEIEALLESSLRQAQQNMDPKAAEEEEEEEEEEVDLACTPTDVRDVDI

832/2777
FIGURE 734

AATTCGGGGGCGTGGAGTTTGTGACATACGAGGTGACACCCCTCGAGTCACTTCCCTTCAACTCCAGCTGGAGC
GCCTGCTTGGCTTTGGGTTTCGTTCTGCAGCCTTCGCCCCGCTCCTAGCCTCAGGGCCGGACTCCAGCGCAGAGCC
CAGCCCAGCGCAGCCTGCCAGCAGCCACCCAGCCGCCAGCCGCCAGCCCCGCACGAAACCCGGCCAGAGCTTC
CTAGCAGCCCCGAGCCATGAACACCGAAATGTATCAGACCCCCATGGAGGTGGCGGTCTACCAGCTGCACAATTTT
TCCATCTCCTTCTTCTCTTCTGCTTGGAGGGGATGTGGTTTCCGTTAAGCTGGACAACAGTGCCTCCGGAGCC
AGCGTGGTGGCCATAGACAACAAGATCGAACAGGCCATGGATCTGGTGAAGAATCATCTGATGTATGCTGTGAGA
GAGGAGGTGGAGATCCTGAAGGAGCAGATCCGAGAGCTGGTGGAGAAGAAGTCCCAGCTAGAGCGTGAGAACACC
CTGTTGAAGACCCTGGCAAGCCCAGAGCAGCTGGAGAAGTTCCAGTCTGTCTGAGCCCTGAAGAGCCAGCTCCC
GAATCCCCACAAGTGCCCGAGGCCCTGGTGGTTCTGCGGTGTAAGTGGCTCTGTCCTCAGGGTGGGCAGAGCCA
CTAAACTTGTTTTACCTAGTTCTTTCCAGTTTGTTTTTGGCTCCCCAAGCATCATCTCACGAGGAGAAGTTTACA
CCTAGCACAGCTGGTGCCAAGAGATGTCTAAGGACATGGCCACCTGGGTCCACTCCAGCGACAGACCCCTGACA
AGAGCAGGTCTCTGGAGGCTGAGTTGCATGGGGCCTAGTAACACCAAGCCAGTGAGCCTCTAATGCTACTGCGCC
CTGGGGGCTCCAGGGCCTGGGCAACTTAGCTGCAACTGGCAAAGGAGAAGGGTAGTTTGAGGTGTGACACCAGT
TTGCTCCAGAAAGTTTAAGGGGTCTGTTTCTCATCTCCATGGACATCTTCAACAGCTTCACCTGACAACGACTGT
TCCTATGAAGAAGCCACTTGTGTTTTAAGCAGAGGCAACCTCTCTCTTCTCCTCTGTTTCGTGAAGGCAGGGGAC
ACAGATGGGAGAGATTGAGCCAAGTCAGCCTTCTGTTGGTTAATATGGTATAATGCATGGCTTTGTGCACAGCCC
AGTGTGGGATTACAGCTTTGGGATGACCGCTTACAAAGTTCTGTTTGGTTAGTATTGGCATAGTTTTTCTATATA
GCCATAAATGCGTATATATACCCATAGGGCTAGATCTGTATCTTAGTGTAGCGATGTATACATATACACATCCAC
CTACATGTTGAAGGGCCTAACCAGCCTGGGAGTATTGACTGGTCCCTTACCTCTTATGGCTAAGTCTTTGACTG
TGTTCAATTTACCAAGTTGACCCAGTTTGTCTTTTAGGTTAAGTAAGAACTCGAGAGTAAAGGCAAGGAGGGGGGC
CAGCCTCTGAATGCGGCCACGGATGCCTTGCTGCTGCAACCCTTTCCCCAGCTGTCCACTGAAACGTGAAGTCCT
GTTTTGAATGCCAAACCCACCATTCACTGGTGCTGACTACATAGAATGGGTTGAGAGAAGATCAGTTTGGGCTTC
ACAGTGTCATTTGAAAAAGCGTTTTTGTGTTTTGTAATTATTGTGGAAAACTTTCAAGTGAACAGAAGGATGG
TGTCCTACTGTGGATGAGGGATGAACAAGGGGATGGCTTTGATCCAATGGAGCCTGGGAGGTGTGCCAGAAAGC
TTGTCTGTAGCGGGTTTTGTGAGAGTGAACACTTTCCACTTTTTGACACCTTATCCTGATGTATGGTTCCAGGAT
TTGGATTTTGATTTTCCAAATGTAGCTTGAAATTTCAATAAAGTTTGTCTGTGTTTTCTAAAAAATAAAAA

833/2777
FIGURE 735

MNTEMYQTPMEVAVYQLHNFSISFFSSLLGGDVSVKLDNSASGASVVAIDNKIEQAMD LVKNHLMYAVREEVEI
LKEQIRELVEKNSQLERENTLLKTLASPEQLEKFQSCLSPEEPAPESPQVPEAPGGS AV

[illegible]

835/2777
FIGURE 737

MISLIALEFTNFYIQTYNKKGASRRKDHLKDHQNGSMAAVNGHTNSFSPLENNVKPRKLRKD

836/2777
FIGURE 738

TCCTGGAGCTGTGAGGAGATTCCGGGCCGTACCCCTGCCTCCCCTGCGTCCCGCCACCGGCCGCTTCTGTCCCTCGG
ACCCATTCCAACAATCTCGTAAAACATGGTGGATTACTATGAAGTTCTAGGCGTGCAGAGACATGCCTCACCCGA
GGATATTAAAAAGGCATATCGGAAACTGGCACTGAAGTGGCATCCAGATAAAAAATCCTGAGAATAAAGAAGAAGC
AGAGAGAAAATTCAAGCAAGTAGCGGAGGCATATGAAGTGCTGTGCGATGCTAAGAAACGGGACATCTATGACAA
ATATGGCAAAGAAGGATTAAATGGTGGAGGAGGAGGTGGAAGTCATTTTGACAGTCCATTTGAATTTGGCTTCAC
ATTCCGTAACCCAGATGATGTCTTCAGGGAATTTTTTGGTGGAAGGGACCCATTTTCATTTGACTTCTTTGAAGA
CCCTTTTGAGGACTTCTTTGGGAATCGAAGGGGTCCCCGAGGAAGCAGAAGCCGAGGGACGGGGTCGTTTTTCTC
TGCCTTCAGTGGATTTCCTCTTTTGGAAGTGGATTTTCTTCTTTTGATACAGGATTTACTTCATTTGGGTCACT
AGGTACAGGGGGCCTCACTTCATTCTCTTCCACGTCATTTGGTGGTAGTGGCATGGGCAACTTCAAATCGATATC
AACTTCAACTAAAATGGTTAATGGCAGAAAAATCACTACAAAGAGAATTGTGAGAACGGTCAAGAAAGAGTAGA
AGTTGAAGAAGATGGCCAGTTAAAGTCCTTAACAATAAATGGTAAGGAGCAGCTGCTGCGCTTGGATAACAAGTA
ATTCAACGCACGCACCTTAACAGAAATGTTAACTATAACAAGCACCATTTGAGGATTAACAGGAACATTTTTTTG
AAGATTTCAAACGAACCTCGACTTTCAGTATAATTGTACCTAAAGTATTTATAAACAGCTCATCGGAGCCTCTATT
TGTCATAGACTTTTGAGTTGATTGTTGGGACCACATAATAGGACCATTTTTTTTTTGTCTTTAAATTTGTTGTAA
ATCTCTGTATGCACCTTTGCTTTTTTATTAAACGTACTCCAAGGTGAGTCTTGACTCTTTAGTGTAGGACAAGATT
GTACACTAACACCAGCATGGACCTGCTTTTCATTGTGTCTGAAATGTGAGCCACGTAGTGTGCGCCTGCTGTGAA
GTTAACATTGCCAGGACGATTCTTCTACAGAAATAATTTCAATTTTTTTTTCAGTATTTAGTAGTGAAAGATATTAA
TACATTAATGGTAATACATTTCTGGTTTAATATAAATTAAGGATGTTTTCTAGTTGTGCATGAATGCTGGCAACT
TAGTAAGTTTTGACAATTGTTTAAATATGTAATGTTAAGCTTAGGTTTAAAAAAGTAAAGCTGGTAAACTGGGTC
TTTGTCAATTTGCTTTAAAAAAAAAAAAAAAAAGAAAATAAATGCGAATGTGTTGGTGCAATTC

837/2777
FIGURE 739

MVDYIEVLGVQRHASPEDIKKAYRKLALKWHPDKNPENKEEAERKFKQVAEAYEVLSDAKKRDIYDKYGKEGLNG
GGGGGSHFDSPFEFGFTFRNPDDVFREFFGGRDPFSFDFFEDPFEDFFGNRRGPRGSRSRGTGSFFSAFSGFPSF
GSGFSSFDTGFTSFGLGHGGLTSFSSTSFGGSGMGNFKSISTSTKMVNNGRKITTKRIVENGQERVEVEEDGQLK
SLTINGKEQLLRLDNK

838/2777
FIGURE 740

GGCACGAGGGAGAAAAGGAGAGAAAAGGAAAGCGCGAGGAGCCGCCGCCACCACCAGCGCAGCAGTCCTGGAGCTGT
GAGGAGATTTCGGGCCCGTCACCCCTGCCTCCCCCTGCGTCCCGCCACCGGCCGCTTCTGTCTCGGACCCATTCCAAC
AATCTCGTAAAAACATGGTGGATTACTATGAAGTTCTAGGCGTGCAGAGACATGCCTCACCCGAGGATATTAAAAA
GGCATATCGGAAACTGGCACTGAAGTGGCATCCAGATAAAAAATCCTGAGAATAAAGAAGAAGCAGAGAGAAAATT
CAAGCAAGTAGCGGAGGCATATGAAGTGTGCTGCGGATGCTAAGAAACGGGACATCTATGACAAATATGGCAAAGA
AGGATTAAATGGTGGAGGAGGAGGTGGAAGTCATTTTGACAGTCCATTTGAATTTGGCTTCACATTCCGTAACCC
AGATGATGTCTTCAGGGAATTTTTTGGTGGAAAGGGACCCATTTTCATTTGACTTCTTTGAAGACCCTTTTGAGGA
CTTCTTTGGGAATCGAAGGGGTCCCCGAGGAAGCAGAAGCCGAGGGACGGGGTCGTTTTCTCTGCGTTCAGTGG
ATTTCCGTCTTTTGAAGTGGATTTTCTTCTTTTGATACAGGATTTACTTCATTTGGGTCACTAGGTCACGGGGG
CCTCACTTCATTCTCTTCCACGTCATTTGGTGGTAGTGGCATGGGCAACTTCAAATCGATATCAACTTCAACTAA
AATGGTTAATGGCAGAAAAATCACTACAAAGAGAATTGTGAGAAACGGTCAAGAAAGAGTAGAAGTTGAAGAAGA
TGGCCAGTTAAAGTCCTTAACAATAAATGGTGTGGCCGACGACGATGCCCTCGCTGAGGAGCGCATGCGGAGAGG
CCAGAACGCCCTGCCAGCCAGCCTGCCGGCCTCCGCCCGCCGAAGCCGCCCGGCCCTGCCCTCGCTGCTGAGACA
CGCGCCTCACTGTCTCTCTGAGGAGGAGGGCGAGCAGGACCGACCTCGGGCACCCGGGGCCCTGGGACCCCTCGC
GTCCGCAGCAGGATTGAAAGAAGGTGGCAAGAGGAAGAAGCAGAAGCAGAGAGAGGAGTCGAAGAAGAAGAAGTC
GACCAAAGGCAATCACTAGACCGGACTTGAGGCACGCGGTGCACCCCCAGACGCTGGCGCTCCACCGTGCTCGGC
ATGCGGTGCTGCACACGCGCTAGGTAGCAGCGTCGGTCAGGACTGTCTCGAGGCCACACTCGCTCGGCAGGATTA
TGCGATCACGGATCAGTCAGAGCAGGGTCAGGAGACGGGGCTGACGGCACGGGTGGCGGGGACAGACGTTTGGGA
CTTGGCCGCGACTCTCTGCTTCTCTCCAGCTCTCAATCTGCTGCATTTTCTCTAGTGCTTCCGGATCCTCTTCA
TTCTTTTTCGGCTACTCAACCACTCCGCATGCTGCTGGAATATTTCTGGCTTTAGAAGTACAGGAGGGCGCAGATG
GCTAACTGAGTAACATTTCATGAAATGAGGCTTTCTGTGGCGGCGTAGTGTTTGAATTAGAAGGTAATTCAGTAG
AGTGTAACCTTAGAGAATATTGCAAGTGACACATTGAATCCTGCCCGTCAGGGCACCTTTTCTCAGAGCAATCCG
GCCACACGAATAGAAGGCTGTGCTGAATCACATCAGATGTAAATCATTCTTCTGTTTACTCTTTAATTTTCA
TCCTTTGTCAGGTAGTGCAAATTCAACTTCAAATATGGTGTAGGTTTTGCTAGATTCCATATTTTTTCTTGGATT
TTTGCTAATTATTTTTTAGCAAAAAATTTTTGCTCAGTGGCACCCCTCCCTAGTGTCATGGGTTAGGGCCATGCTG
GGGAAAACGGGCCCGGTATTTACACACGCGCAAAACACCCAGAGACGGCACAAAGGAGGTTGAACTCATGTTTCAGT
TCGCGAACATTGACTCCTTACGAAAGTCACTTCATTCTAACTAGATGCGCCCACTTCCGGTCATTATTTTCGTTTG
CATGATGTATTGCTTCTTTCACGTTTTGTTTTATTGAGCACGGAGTAGAATTCCAGGGCTGCCTTGACTTCTTCC
CTGCAATGCTCCCTCCAGTGACTTTCCCTTCCCTTTCACATGAGGATCTGCCGTTTCATGTTGCTTTCTCCTTTGTC
CTCTTGGACTTGAGGGCATTGTGAAAAGCTTTGCTGTGATTTAAAAATGCCAGCAATTTAATCTAGCAGTGTTG
AAGCTGGGAATTTTTTGGCGCAATCCATGTAGCAGTGACCCAGGCTTGGGAGCCAGAAACAAGTGTGACCTGGGA
TTTTATTTAACACAAGTGTGCGCAAGAGTTGGCTTTGTTTATTGTTTTTGGCGGGGAGAGGAGTGGTATTTGA
TGCTTTCTGTGGACAATGTAACCTAAACACATCATGTATTTTAAATGCCACCTACATAAATAAAACATAAGCAT
ATTGAATACAAAAA

839/2777
FIGURE 741

MVDYYEVLGVQRHASPEDIKKAYRKLALKWHPDKNPENKEEAERKFQVAEAYEVLSDAKKRDIYDKYGKEGLNG
GGGGGSHFDSPPFEFGFTFRNPDDVFREFFGGRDPFSFDFFEDPFEDFFGNRRGPRGSRSGTGSFFSAFSGFPSPF
GSGFSSFDTGFTSFGSLGHGGLTSFSSTSFSGSGMGNFKSISTSTKMVNGRKITTKRIVENGQERVEVEEDGQLK
SLTINGVADDDALAEERMRRGQNALPAQPAGLRPPKPPRPASLLRHAPHCLSEEEGEQDRPRAPGPWDPLASAAG
LKEGGKRKKQKQREESKKKKSTKGNH

840/2777
FIGURE 742

GCACGAGCTGCGGCTCCGCTCTCGTCGCAACGAGATCTTTTCGAGATCTTCTCCGCCCCGCTACCGGCGCCTCCT
CTGCGGCCACTGAGCCGGAGCCGGCCTGAGCAGCGCTCTCGGTTGCAGTACCCACTGGAAGGACTTAGGCGCTCG
CGTGACACCGCAAGCCCCCTCAGTAGCCTCGGCCCAAGAGGCCTGCTTTCCACTCGCTAGCCCCGCCGGGGTCCG
TGTCTGTCTCGGTGGCCGGACCCGGGCCCGAGCCCGAGCAGTAGCCGGCGCCATGTCGGTGGTGGGCATAGACC
TGGGCTTCCAGAGCTGCTACGTCGCTGTGGCCCGCGCCGGCGGCATCGAGACTATCGCTAATGAGTATAGCGACC
GCTGCACGCCGGCTTGCATTTCTTTTGGTCTTAAGAATCGTTCAATTGGAGCAGCAGCTAAAAGCCAGGTAATTT
CTAATGCAAAAGAACACAGTCCAAGGATTTAAAAGATTCCATGGCCGAGCATTCTCTGATCCATTTGTGGAGGCAG
AAAAATCTAACCTTGCATATGATATTGTGCAGTTGCCTACAGGATTAACAGGTATAAAGGTGACATATATGGAGG
AAGAGCGAAAATTTTACCCTGAGCAAGTGACTGCCATGCTTTTGTCCAAACTGAAGGAGACAGCCGAAAGTGTTT
TTAAGAAGCCTGTAGTTGACTGTGTTGTTTCGGTTTCCTTGTCTTATACTGATGCAGAAAGACGATCAGTGATGG
ATGCAACACAGATTGCTGGTCTTAATTGCTTGCATTAAATGAATGAAACCACTGCAGTTGCTCTTGCATATGGAA
TCTATAAGCAGGATCTTCTGCTTAGAAGAGAAACCAAGAAATGTAGTTTTTGTAGACATGGGCCACTCTGCTT
ATCAAGTTTCTGTATGTGCATTTAATAGAGGAAAACCTGAAAGTTCTGGCCACTGCATTTGACACGACATTGGGAG
GTAGAAAATTTGATGAAGTGTTAGTAAATCACTTCTGTGAAGAATTTGGGAAGAAATACAAGCTAGACATTAAGT
CCAAAATCCGTGCATTATTACGACTCTCTCAGGAGTGTGAGAACTCAAGAAATTGATGAGTGCAAATGCTTCAG
ATCTCCCTTTGAGCATTGAATGTTTTATGAATGATGTTGATGTATCTGGAACCTATGAATAGAGGCAAATTTCTGG
AGATGTGCAATGATCTCTTAGCTAGAGTGGAGCCACCCTTCGTAGTGTGTTTGGAAACAAACCAAGTTAAAGAAAG
AAGATATTTATGCAGTGGAGATAGTTGGTGGTGTACACGAATCCCTGCGGTAAAAGAGAAGATCAGCAAATTTT
TCGGTAAAGAACTTAGTACAACATTAAATGCTGATGAAGCTGTCACTCGAGGCTGTGCATTGCAGTGTGCCATCT
TATCGCCTGCTTTCAAAGTCAGAGAATTTTCTATCACTGATGTAGTACCATATCCAATATCTCTGAGATGGAATT
CTCCAGCTGAAGAAGGGTCAAGTGACTGTGAAGTCTTTTCCAAAATCA.TGCTGCTCCTTTCTCTAAAGTTCTTA
CATTTTATAGAAAGGAACCTTTCACCTCTTGAGGCCTACTACAGCTCTCCTCAGGATTTGCCCTATCCAGATCCTG
CTATAGCTCAGTTTTCAGTTCAGAAAGTCACTCCTCAGTCTGATGGCTCCAGTTCAAAAGTGAAAGTCAAAGTTC
GAGTAAATGTCCATGGCATTTCAGTGTGTCCAGTGCATCTTTAGTGGAGGTTTACAAGTCTGAGGAAAATGAGG
AGCCAATGGAAACAGATCAGAATGCAAAGGAGGAAGAGAAGATGCAAGTGGACCAGGAGGAACCATGTTGAAG
AGCAACAGCAGCAGACACCAGCAGAAAATAAGGCAGAGTCTGAAGAAATGGAGACCTCTCAAGCTGGATCCAAGG
ATAAAAAGATGGACCAACCACCCCAAGCCAAGAAGGCAAAAGTGAAGACCAGTACTGTGGACCTGCCAATCGAGA
ATCAGCTATTATGGCAGATAGACAGAGAGATGCTCAACTTGTACATTGAAAATGAGGGTAAGATGATCATGCAGG
ATAAAGTGGAGAAGGAGCGGAATGATGCTAAGAACGCAGTGAGGGAATATGTGTATGAAATGAGAGACAAGCTTA
GTGGTGAATATGAGAAGTTTGTGAGTGAAGATGGTCTGTAACAGTTTTTACTTTGAAACTGGAAGATACTGAAAATT
GGTTGTATGAGGATGGAGAAGACCAGCCAAAGCAAGTTTATGTTGATAAGTTGGCTGAATTAAGAAATCTAGGTC
AACCTATTAAGATACGTTTCCAGGAATCTGAAGAACGACCAAAATTATTTGAAGAACTAGGGAAACAGATCCAAC
AGTATATGAAAATAATCAGCTCTTTCAAAAACAAGGAGGACCAGTATGATCATTGGATGCTGCTGACATGACAA
AGGTAGAAAAAAGCACAAATGAAGCAATGGAGTGGATGAATAACAAGCTAAATCTGCAGAACAGCAGAGTTTGA
CCATGGATCCAGTTGTCAAGTCAAAAGAGATTGAAGCTAAATTAAGGAGCTGACAAGTACTTGTAGCCCTATAA
TTTCAAGGCCCAACCCAAAGTGGAACCTCCAAAAGAGGAACAAAAAATGCAGAGCAGAATGGACCAGTGGATG
GACAAGGAGACAACCCAGGCCCCAGGCTGCTGAGCAGGGTACAGACACAGCTGTGCCCTCGGATTCAGACAAGA
AGCTTCCTGAAATGGACATTGATTGATTTCCAACACTTGTTTCTATTAAACAGACTATTATAAA

841/2777
FIGURE 743

MSVVGIDLGFGSCYVAVARAGGIETIANEYSDRCTPACISFGPKNRSIGAAKSQVISNAKNTVQGFKRFHGRAF
SDPFVEAEKSNLAYDIVQLPTGLTGIVTYMEEERNFTTEQVTAMLLSKLKETAESVLKKPVVDCVVSVPFCFYTD
AERRSVMDATQIAGLNCLRLMNETTAVALAYGIYKQDLPALEEKPRNVVVFVDMGHSAYQVSVCAFNRGKLKVLAT
AFDTTLGGRKFDEVLVNHFCSEFGKKYKLDIKSKIRALLRLSQECEKLKKLMSANASDLPLSIECFMNDVDVSGT
MNRGKFLEMCNDLLARVEPPLRSVLEQTKLKKEDIYAVEIVGGATRIPAVKEKISKFFGKELSTTLNADEAVTRG
CALQCAILSPAFAKVFREFSITDVVPYPISLRWNSPAEEGSSDCEVFSKNHAAPFSKVLTFYRKEPFTLEAYYSSPQ
DLPYPDPAIAQFSVQKVTPQSDGSSSKVKVVRVNVHGIFSVSSASLVEVHKSEENEEMETDQNAKEEEKMQVD
QEEPHVEEQQQQTPAENKAESEEMETSQAGSKDKKMDOPPOAKKAKVKTSTVDLPIENQLLWQIDREMLNLYIEN
EGKMIMQDKLEKERNDKNAVREYVYEMRDKLSGEYEKVFVSEDGRNSFTLKLEDTENWLYEDGEDQPKQVYVDKL
AELKNLGQPIKIRFQSEERPKLFEELGKQIQQYMKIISFKNKEDQYDHLDAADMTKVEKSTNEAMEWMNNKLN
LQNKQSLTMDPVVKSKEIEAKIKELTSTCSP IISKPKPKVEPPKEEQKNAEQNGPVDGQGDNP GPQAAEQGTDTA
VPSSDSKKLPEMDID

842/2777
FIGURE 744A

TCCGCCTCTCTCTTTACTGCGGCGCGGGGCAAGGTGTGCGGGCGGGAAGGGGCACGGGCACCCCCGCGGTCCCCG
GGAGGCTAGAGATCATGGAAGGGAAGTGGTTGCTGTGTATGTTACTGGTGCTTGGAAGTCTATTGTTGAGGCTC
ATGATGGACATGATGATGATGTGATTGATATTGAGGATGACCTTGACGATGTCATTGAAGAGGTAGAAGACTCAA
AACCAGATACCACTGCTCCTCCTTCATCTCCCAAGGTTACTTACAAAGCTCCAGTTCCAACAGGGGAAGTATATT
TTGCTGATTCTTTTGACAGAGGAAGTCTGTGAGGGTGGATTTTATCCAAAGCCAAGAAAGACGATACCGATGATG
AAATTGCCAAATATGATGGAAGTGGGAGGTAGAGGAAATGAAGGAGTCAAAGCTTCCAGGTGATAAAGGACTTG
TGTTGATGTCTCGGGCCAAGCATCATGCGATCTCTGCTAAACTGAACAAGCCCTTCTGTTTGACACCAAGCCTC
TCATTGTTTCAGTATGAGGTTAATTTCCAAAATGGAATAGAATGTGGTGGTGCCTATGTGAAACTGCTTCTTAAAA
CACCAGAAGTCAACCTGGATCAGTTCCATGACAAGACCCCTTATACGATTATGTTTGGTCCAGATAAATGTGGAG
AGGACTATAAACTGCACTTCATCTTCCGACACAAAACCCAAAACGGGTATCTATGAAGAAAAACATGCTAAGA
GGCCAGATGCAGATCTGAAGACCTATTTTACTGATAAGAAAACACATCTTTACACACTAATCTTGAATCCAGATA
ATAGTTTTGAAATACTGGTTGACCAATCTGTGGTGAATAGTGGAATCTGCTCAATGACATGACTCCTCCTGTAA
ATCCTTCACGTGAAATTGAGGACCCAGAAGACCGGAAGCCCGAGGATTGGGATGAAAGACCAAAAATCCCAGATC
CAGAAGCTGTCAAGCCAGATGACTGGGATGAAGATGCCCTGCTAAGATTCCAGATGAAGAGGCCACAAAACCCG
AAGGCTGGTTAGATGATGAGCCTGAGTACGTACCTGATCCAGACGCAGAGAAACCTGAGGATTGGGATGAAGACA
TGGATGGAGAATGGGAGGCTCCTCAGATTGCCAACCTAGATGTGAGTCAGCTCCTGGATGTGGTGTCTGGCAGC
GACCTGTGATTGACAACCCCAATTATAAAGGCAAATGGAAGCCTCCTATGATTGACAATCCCAGTTACCAGGGAA
TCTGGAACCCAGGAAAATACCAAAATCCAGATTTCTTTGAAGATCTGGAACCTTTCAGAATGACTCCTTTTAGTG
CTATTGGTTTGAGCTGTGGTCCATGACCTCTGACATTTTTTTTGACAACTTTATCATTGTGTCTGATCGAAGAA
TAGTTGATGATTGGGCCAATGATGGATGGGGCCTGAAGAAAGCTGCTGATGGGGCTGCTGAGCCAGGCGTTGTGG
GGCAGATGATCGAGGCAGCTGAAGAGCGCCCGTGGCTGTGGGTAGTCTATATTCTAACTGTAGCCCTTCTGTGT
TCCTGGTTATCCTCTTCTGCTGTTCTTGAAAGAAACAGACCAGTGGTATGGAGTATAAGAAAAGTATGCACCTC
AACCGGATGTGAAGGAAGAGGAAGAAGAGAAGGAAGAGGAAAAGGACAAGGGAGATGAGGAGGAGGAAGGAGAAG
AGAACTTGAAGAGAAACAGAAAAGTGAATGCTGAAGAAGATGGTGGCACTGTCAGTCAAGAGGAGGAAGACAGAA
AACCTAAAGCAGAGGAGGATGAAATTTGAACAGATCACCAGAAACAGAAAGCCACGAAGAGAGTGAACAATC
TTAAGAGCTTGATCTGTGATTTCTTCTCCCTCCTCCCTGCAAGAGTGGTCCTAGGAGAGGACCTGGCACACCTT
AGGTTGACATTGAGAAAACCTCAAGACATCACCATCAGCAGGCTCCAGTTGAACACTAGTCTGTGTAACCTTTAAA
CATCTAGCAGTAAATACTTGCAGTTGTGATATAAAGGACCCGTGTTCTGTAGAAAAGAAAACATTTAACAATAATG
GTTGTGAAATGTAACATGAAGCAAACCTAATTTTTTTTTTTTAAACATCTTTGTTTTTAAATAGAATGATAGAAC
TTTGCCAGTCTTTAAGATCTTGGCTTAATTTAATGTATTAATCTGTTTGTGCAACATAATACCACCATTTAAAA
ATGTTAGGAGATGAGTTGCAGTTTTTATAATAGATTTTTTTTAAAGTTTGGTATTGTAACATTACACCTCT
GTCCCTCAAATTGATAATTACGTTTAAAGTGCAGTCATTTGTGGTTAGAACTTGTGTTTTGTTTGTCTTCCATTAT
TGAGTTCTCCTAAGGAAATTGAGGAGAGGGACTGAATAGAAGCCCAATTCATATAAAAGTTGCGTTTAAAGTTG
TATTAAAAATAGATATATAAGAAAAAATCTTTCACTTGATGTTTGTAGACCAGAAAGTGTGTGTGTTCTGTAG
CTCAGTTCCCAGACAGCTTTTTAGGTAGTGGAGGAGGTGGCTTCATGTGGCATTGGGCATTTATATTCCACTTG
GGAGGGTCAGGCCTGTGGCTTCTGGAGCAGGTGGCTTGTTAAGGAACGCTAGCAGGGCATGGCACGTGAGCTCCG
GAATAGATGTCTTCATCACTTCTTCCACTGTGTGTTGACACTGTTTTCTTACCTATTTCTCAGATCCCCAGCT
TTCTCCTCGCTATGCATTTCTTTCAGTGCAGCTTGCAGTCCGTTGCTGAAAATGATTATAAGCCCTGCATAAT
GTTAAGCTTTATTGTGATTACGTGTATGTTTCTTCTTTTAAAGCAGACCCATACCTTTCCAGGGTCAAAGTA
CAGAATAGAATACATTGATACAAAGTACAGAAAAATACTTTGATTTTTATCCATTTCTTTTACTCTGTGTAAAGA
CTTTAGAAGTCTAATTCACAGGCAAACCAATACAGAATTGACTGCAGTTGAACAGACTAGAAGTATTTGTGGGAG
GAGTGACATGAAGCATGAGTTATCTGATTTTTTTTGTAGCTGCTATATATTTAAGCCTTCATTTGCAATTCATG
TAACAGTTGTGTCATAAATTACACAATAAAGCAGTCCTGTTCAAATTTTTTTTAAAGTGGCTGTGTAATTTTT
AAAAAGTGATCTTAGGTTTGTGTTTTTTCATGCGGGATGCAGATGGGTGCTATCAGAGCCTCTCCACACCACTAT
AGTGTAAATAATGTTATTATTACTCTACACTGAAACGTATTGAGAGTTAGATATTATTTTAGCTTCAGTTGTTCTT
TAGAGGCTTTCAAATGTACCGATGATACTGTTTCTTGCACTGAATATATAAAACTCCACAGTGTATATTGGG
AAGATATTGGGAAGGAAATATATTTGTAAAGATGAAGGCTGTATCTATTTTTTTTCTTTTTAAACTGGTTCAC
TTAAATCTTTTGAGGATGGGATGTATTTTTCTTGCTGTTTCAGTGCTTTTTCTTTTCACTGTGTTCTGTGGT

843/2777

FIGURE 744B

CACAGTGACCTTAGCTACATAGCAGACTTCCCAAATGTATTGATTACAAATAAACAGTTGTTACTTAGCAAGAC
CTGAAAATATGTCTGCAGGTTTCCTTGAAGCAAATGTGTGGGATCATTGCATTTCCAGAAATCTGCCTCCTTC
ACCCACCGTTGACAGTATATGTCATGCCTCACTTCTTGTAGCTGAGCTTTAAATCATTAGAGCTTAAATTGTCA
GATCGTTCATTGCCTTTCCAGGGTTATTTAGTAAAGTTTGTGAAAACAAAAACGCCTTTTCTTGGTTCTTTTTT
CAGTTATTTTGAAGGTCCAGCATCCTGATTAAATGTCTGACACTTAATGAATGACCAGCAGCAGCTTTCAGCTCT
TAAAAGACACTTATATTTTGATTTTACATGCTGGTTACCTGTTCCATTGTTGTCAAATGCCAGTGTCCATCAG
ATGTGTTCTCCATTTTCTTATCCACAAAGTACTCCTCACTTTTCAATTTGTCATGTTACTAAACCC

844/2777
FIGURE 745

MEGKWLLCMLLVLTGTAIVEAHDGHDDDDVIDIEDDLDDVIEEVEDSKPDTTAPPSSPKVITYKAPVPTGEVYFADSF
DRGTL SGWILSKAKKDDTDDEIAKYDGKWEVEEMKESKLP GDKGLVLMSRAKHHAISAKLNKPF LFDTKPLIVQY
EVNFQNGIECGGAYVKLLSKTPELNLDQFHDKTPYTIMFGPDKCGEDYKLHFIFRHKNPKTGIYEEKHAKRPDAD
LKTYFTDKKTHLYTLILNPDNSFEILVDQSVVNSGNLLNDMTPPVNP SREIEDPEDRKPEDWDERPKIPDPEAVK
PDDWDEDAPAKIPDEEATKPEGWLDDEPEYVPDPDAEKPEDWDEDMDGEWEAPQIANPRCESAPGCGVWQRPVID
NPNYKGKWKPPMIDNPSYQGIWKPRKIPNPDFFEDLEPFRMTPFSAIGLELWSMTSDIFFDNFIICADRRIVDDW
ANDGWGLKKAADGAAEPGVVGQMI EAAEERPWLWVVYILTVALPVFLVILFCCSGKKQTSGMEYKKT DAPQPDVK
EEEEEEKEEEKDKGDEEEEGEEKLEEKQKSDAEEDGGTVSQEEEDRKPKAEDEILNRSRPNRKPRRE

845/2777
FIGURE 746

GGGGAGAGAGTGGGGACGTCCGGCTTCGGAGCGGGAGTGTTCGTTGTGCCAGCGACTAAAAAGAGAATTAAATAT
GGGTGATGTTGAGAAAGGCAAGAAGATTTTTATTATGAAGTGTTCCAGTACCACACCGTTGAAAAGGGAGGCAA
GCACAAGACTGGGCCAAATCTCCATGGTCTCTTTGGGCGGAAGACAGGTCAGGCCCCCTGGATACTCTTACACAGC
CGCCAATAAGAACAAAGGCATCATCTGGGGAGAGGATACACTGATGGAGTATTTGGAGAATCCCAAGAAGTACAT
CCCTGGAACAAAAATGATCTTTGTGCGCATTAGAAGAAGGAAGAAAGGGCAGACTTAATAGCTTATCTCAAAAA
AGCTACTAATGAGTAAATAATTGGCCACTGCCTTATTTATTACAAAACAGAAATGTCTCATGACTTTTTTATGTGT
ACCATCCTTTAATAGATCTCATAACCCAGAATTCAGATCATGAATGACTGACAGAATATTTTGTGGGCAGTCCT
GATTTAAAACTAAGACTGGCTTGTGGTTAAATGAATATGTTTCAGTTTTTGAATTTTAAATAGTAACTCCAATTCAG
TAAATGGTATCACTGTTTACCCCTTTTAAAGATATGATTAGACTTCGTTAGTAATGTTCAACTTTTCACAAAGAT
GGTGAGTGCCATCTTAAAACCTTACTGGAGATTGGTTTTATATTTAGATTTATATACTGGTTATGTGAATATATT
TAAATACTGGGGAAATTGCTTCACTGTCTTAGAACCAAGCAAGATTCACCTGTGTTTTGTGTTTCATGTTCAATTTG
CCTCTTAAAGGCAAGGGTTGAAGATAAATAAGGTAGCAATGTCTATAGTTTTGGCCTTAAGTATGCCAATCTAAT
TATAATTCCTGTATTTAAATGGTTTCTTTTACTTATTGAAAGGCATTTTAGTGTGGTTTATGTGTAATATTAA
AGATTATTCAACACCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

846/2777
FIGURE 747

MGDVEKGKKIFIMKCSQYHTVEKGGKHKGTGPNLHGLFGRKTGQAPGYSYTAANKNGIIWGEDTLMEYLENPKKY
IPGTMIFVGIKKKEERADLIAYLKATNE

847/2777
FIGURE 748

CCGGCGGCGCCTCAGGTCGCGGGGCGCCTAGGCCTGGGTGTGCTTTGCATCTGCACGTGTTGCGAGTCGTTTCC
GCGATGCTGCCTCTGCTGCGCTGCGTGCCCCGTGTGCTGGGCTCCTCCGTGCGCGGCCTCCGCGCTGCCGCGCCC
GCCTCGCCTTTCCGGCAGCTCCTGCAGCCGGCACCCCGGCTGTGCACCCGGCCCTTCGGGCTGCTCAGCGTGCGC
GCAGGTTCCGAGCGGCGGCCGGGCTCCTGCGGCCTCGCGGACCCTGCGCCTGTGGCTGTGGCTGCGGCTCGCTG
CACACCGACGGAGACAAAGCTTTTGTGATTTCCTGAGTGATGAAATTAAGGAGGAAAGAAAAATTGAGAAGCAT
AAAACCCCTCCCTAAGATGTCTGGAGGTTGGGAGCTGGAAGTGAATGGGACAGAAGCGAAATTAGTGCGGAAAGTT
GCCGGGGAAAAAATCACGGTCACTTTCAACATTAACAACAGCATCCCAACACATTTGATGGTGAGGAGGAACCC
TCGCAAGGGCAGAAGGTTGAAGAACAGGAGCCTGAACTGACATCAACTCCCAATTTGTTGGTTGAAGTTATAAAG
AATGATGATGGCAAGAAGGCCCTTGTGTTGGACTGTGATTATCCAGAGGATGAGGTTGGACAAGAAGACGAGGCT
GAGAGTGACATCTTCTCTATCAGGGAAGTTAGCTTTTCACTCCACTGGCGAGTCTGAATGGAAGGATACTAATTAT
ACACTCAACACAGATTCCCTGGACTGGGCCCTTATATGACCACCTAATGGATTTCCCTGCCGACCGAGGGGTGGAC
AACACTTTTGCAGATGAGCTGGTGGAGCTCAGCACAGCCCTGGAGCACCAGGAGTACATTACTTTTCTTGAAGAC
CTCAAGAGTTTTGTCAAGAGCCAGTAGAGCAGACAGATGCTGAAAGCCATAGTTTCATGGCAGGCTTTGGCCAGT
GAACAAATCCTACTCTGAAGCTAGACATGTGCTTTGAAATGATTATCATCCTAATATCATGGGGGAAAAAATACC
AAATTTAAATTATATGTTTTGTGTTCTCATTATTTATCATTTTTTTCTGTACAAATCTATTATTTCTAGATTTTT
GTATAACATGATAGACATAAAATTGGTTTATCTCCTCCGCTGAGTCTTCTAGAAAGTACCTGCTGGGTTCTCAGT
TCCAGTTCCCATCCTTTGATTGATCACTCTCCCTGACATCCACCTGTATGACTTTGTACCAAAATGCTGTCTTCT
CTTCTCCAATCAAGAAATAATAATCCCTCGAGTTTACAAAACAAAAAAAAAAAAAAAA

848/2777
FIGURE 749

MLPLLRCVPRVLGSSVAGLRAAAPASPFQQLQPAPRLCTRPFGLLSVRAGSERRPGLLRPRGPCACGCGGSLH
TDGDKAFVDFLSDEIKEERKIQKHKTLPKMSGGWELELNGTEAKLVRKVAGEKITVTFNINNSIPPTFDGEEEPS
QGQKVEEQEPELTSTPNFVVEVIKNDDGKKALVLDCHYPEDEVGQEDAESESDIFSIREVSFQSTGESEWKDTNYT
LNTDSLWDALYDHLMDFLADRGVDNTFADELVELSTALEHQEYITFLEDLKSFVKSQ

849/2777
FIGURE 750

TGGACTTGGATCCGAGGCAGACGAGGAAGCTGAGAAAACCTGGCGTTGACCCCGTGGACCTGGGCGCCCCGGGA
AGGTCCAGCGCTTGGTCCAGGCAGGCGGGGATGTGCGGTGACCACCCTGGTCCTGAAAAGTCCAGCCCCGAATCT
CCCTCCCTCCTAGACCTGGAGGCCTGGAACAGCCAGCCGCCACGGACGCCAGAGCCGGGAACCCGTGACGGCACT
TAGCTGCTGACAAACAACCTGCTCCGTGGACGCCTGAAACACCAGTCTTTGGGGCCAGTGCCCTCAGTTTCAATCC
AGGTAACCTTTAAATGAAACTTGCCTAAAATCTTAGGTCTATACAGAAGAGACTCCAATCGACAAGAAGCTGGA
AAAGAATGATGTTGTCTTAAACAACCTACAGAATATCATCTATAACCCGGTAATCCCGTATGTTGGCACCATT
CCGATCAGCTGGATCCTGGAACCTTTGATTGTGATATGTGGGCATGTTCTAGTGACGCAGACAGATTCCAGGTGG
ATCTGCAGAATGGCAGCAGTGTGAAACCTCGAGCCGATGTGGCCTTTTCAATTCCTCGTTTCAAAGGGCCG
GCTGCATTGTTTGCAATACTTTGATAAATGAAAAATGGGGACGGGAAGAGATCACCTATGACACGCCTTTCAAAA
GAGAAAAGTCTTTTGAGATCGTGATTATGGTGCTAAAGGACAAATTCCAGGTGGCTGTAAATGGAAAACATACTC
TGCTCTATAGGCCACAGGATCGGCCAGAGAAAATAGACACTCTGGGCATTTATGGCAAAGTGAATATTTACTCAA
TTGGTTTTAGCTTCAGCTCGGACTTACAAAGTACCCAAGCATCTAGTCTGGAAGTACAGAGATAAGTAGAGAAA
ATGTTCCAAAGTCTGGCACGCCCCAGCTTCAGACTGTCTCTCCCTCCTGGGATTTACAGGGTCATGGCTCTGAAA
CATTCTGTAGTGTTCTTTGGACACGAGTTTTCTGGAGATCGCTTCTGTCAGGCCTATTGGTCTGACTGTGGCTT
CTTTTCAGAGCCTGCCATTGCTGCAAGGTTGAACACCCCCATGGGCCCTGGACGAAGTGTGCTCGTTAAAGGAG
AAGTGAATGCAAATGCCAAAAGCTTTAATGTTGACCTACTAGCAGGAAAATCAAAGGATATTGCTCTACACTTGA
ACCCACGCCTGAATATTAAAGCATTGTAAAGAAATTTCTTTCTTCAGGAGTCTGGGGAGAAGAAGAGAGAAATA
TTACCTCTTTCCCATTTAGTCTGGGATGTACTTTGAGATGATAATTTACTGTGATGTTAGAGAAATTCAGGTTG
CAGTAAATGGCGTACACAGCCTGGAGTACAAACACAGATTTAAAGAGCTCAGCAGTATTGACACGCTGGAAATTA
ATGGAGACATCCACTTACTGGAAGTAAGGAGCTGGTAGCCTACCTACACAGCTGCTACAAAAACCAAATACAGA
ATGGCTTCTGTGATACTGGCCTTGCTGAAACGCATCTCACTGTCAATTCTATTGTTTATATTGTTAAATGAGCTT
GTGCACCATTAGATCCTGCTGGGTGTTCTCAGTCCTTGCCATGAAGTATGGTGGTGTCTAGCACTGAATGGGGAA
ACTGGGGGCAGCAACACTTATAGCCAGTTAAAGCCACTCTGCCCTCTCTCCTACTTTGGCTGACTCTTCAAGAAT
GCCATTCAACAAGTATTTATGGAGTACCTACTATAATACAGTAGCTAACATGTATTGAGCACAGATTTTTTTTGG
TAAACTGTGAGGAGCTAGGATATATACTTGGTGAAACAAACCAGTATGTTCCCTGTTCTCTTGAGCTTCGACTC
TTCTGTGCTCTATTGCTGCGCACTGCTTTTTCTACAGGCATTACATCAACTCCTAAGGGGTCTCTGGGATTAGT
TAAGCAGCTATTAAATCACCCGAAGACACTAATTTACAGAAGACACAACCTCCTTCCCCAGTGATCACTGTCATAA
CCAGTGCTCTACCGTATCCCATCACTGAGGACTGATGTTGACTGACATCATTTTTATCGTAATAAACATGTGGCTC
TATTAGCTGCAAGCTTTACCAAGTAATTGGCATGACATCTGAGCACAGAAATTAAGGCAAAAAACCAAAGCAAAA
CAAATACATGGTGCTGAAATTAACCTTGATGCCAAGCCCAAGGCAGCTGATTTCTGTGTATTTGAACTTAGGGCAA
ATCAGAGTCTACACAGACGCCTACAGAAAGTTTCAGGAAGAGGCAAGATGCATTCAATTTGAAAGATATTTATGG
GCAACAAAGTAAGGTGAGGATTAGACTTCAGGCATTCTAAGGCAGGCACTATCAGAAAAGTGTACGCCAACTAAG
GGACCCACAAAGCAGGCAGAGGTAATGCAGAAATCTGTTTTGTTCCCATGAAATCACCAATCAAGGCCTCCGTTT
TTCTAAAGATTAGTCCATCATCATTAGCAACTGAGATCAAAGCACTCTTCCACTTTACGTGATTAAATCAAACC
TGTATCAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

850/2777
FIGURE 751

MLSLNNLQNIITYNPVIPYVGTIPDQLDPGTLIVICGHVPSDADRQVDLQNGSSVKPRADVAFHFNPRFKRAGCI
VCNTLINEKWGREIITYDTPFKREKSFEIVIMVLKDKFQAVNGKHTLLYGHRIGPEKIDTLGIYGKVNIHSIGF
SFSSDLQSTQASSLELTEISRENVPKSGTPQLQTVSPSWDLQGHGSETFCSVLWTRVFLEIAFCRPIGLTVASFQ
SLPFAARLNTPMGPGRITVVVKGEVNANAKSFNVDLLAGKSKDIALHLNPRLNIAFVRNSFLQESWGEEERNITS
FPFSPGMYFEMIIYCDVREFKVAVNGVHSLEYKHRFKELSSIDTLEINGDIHLLEVRWS

851/2777
FIGURE 752

GGGGCCCATTCTGTTTCAGCCAGTCGCCAAGAATCATGAAGTCGCCAGTGGCAGCACCGCCACCGCCGCGCGG
GCCCCAGCTGCGCGCTGAAGGCCGGCAAGACAGCGAGCGGTGCGGGCGAGGTGGTGCCTGTCTGTCTGAGCAGA
GCGTGGCCATCTCGCGCTGCCGGGGCGCCGGGGCGCGCCTGCCTGCCCTGCTGGACGAGCAGCAGGTAAACGTGC
TGCTCTACGACATGAACGGCTGTTACTCACGCCTCAAGGAGCTGGTGCCACCCTGCCCCAGAACC GCAAGGTGA
GCAAGGTGGAGATTCTCCAGCACGTCATCGACTACATCAGGGACCTTCAGTTGGAGCTGAACTCGGAATCCGAAG
TTGGGACCCCCGGGGGCCGAGGGCTGCCGGTCCGGGCTCCGCTCAGCACCCCTCAACGGCGAGATCAGCGCCCTGA
CGGCCGAGGCGGCATGCGTTTCTGCGGACGATCGCATCTTGTGTGCTTGAAGCGCCTCCCCCAGGGACCGGCGGA
CCCCAGCCATCCAGGGGGCAAGAGGAATTACGTGCTCTGTGGGTCTCCCCAACGCGCCTCGCCGGATCTGAGGG
AGAACAAGACCGATCGGCGGCCACTGCGCCCTTAAGTGCATCCAGCCTGGGGCTGAGGCTGAGGCACTGGCGAGG
AGAGGGCGCTCCTCTCTGCACACCTACTAGTCACCAGAGACTTTAGGGGGTGGGATTCCACTCGTGTGTTTCTAT
TTTTTGAAAAGCAGACATTTTAAAAAATGGTCACGTTTGGTGCTTCTCAGATTTCTGAGGAAATTGCTTTGTATT
GTATATTACAATGATCACCGACTGAGAATATTGTTTACAATAGTTCTGTGGGGCTGTTTTTTTGTATTAAACA
AATAATTTAGATGGTGAAAAAAAAA

852/2777
FIGURE 753

MKVASGSTATAAAGPSCALKAGKTASGAGEVVRCLSEQSVAISRGRGAGARLPALLDEQQVNVLLYDMNGCYSRL
KELVPTLPQNRKVKVEILQHVIDYIRDLQLELNSESEVGTGGGRGLPVRAPLSTLNGEISALTAEAAACVPADDR
ILCR

853/2777
FIGURE 754

CCTGCTCCAAGGTCCAGAGAGCTTTCTGGTCTTTGCAGCAGGCCTGCCGCCTTCATGTCCTCTCCTCATCAAT
CAGCCCCAGTATGCGTGGCTGAAAGAGCTGGGGCTCCGCGAGGAAAACGAGGGCGTGATAATGGAAGCTGGGGA
GGCCGGGGAGAGGTTATTACGACCTATTGCCCCGCTAACAAACGAGCCAATAGCAAGAGTCCGACAGGCCAGTGTG
GCAGACTATGAAGAACTGTAAAGAAAAGCAAGAGAAGCATGGAAAATCTGGGCAGATATTCTGCTCCAAAACGA
GGAGAAATAGTAAGACAGATTGGCGATGCCTTGCGGGAGAAGATCCAAGTACTAGGAAGCTTGGTGTCTTTGGAG
ATGGGGAAAATCTTAGTGGAAGGTGTGGGTGAAGTTCAGGAGTATGTGGATATCTGTGACTATGCTGTTGGTTTA
TCAAGGATGATTGGAGGACCTATCTTGCCCTTCTGAAAGATCTGGCCATGCACTGATTGAGCAGTGGAATCCCGTA
GGCCTGGTTGGAATCATCACGGCATTCAATTTCCCTGTGGCAGTGTATGGTTGGAACAACGCCATCGCCATGATC
TGTGGAAATGTCTGCCTCTGGAAGGAGCTCCAACCCTTCCCTCATTAGTGTGGCTGTACAAAGATAATAGCC
AAGTTCTGGAGGACAACAAGCTGCCTGGTGCAATTTGTTCCCTTGACTTGTGGTGGAGCAGATATTGGCACAGCA
ATGGCCAAAGATGAACGAGTGAACCTGCTGTCTTCACTGGGAGCACTCAGGTGGGAAAACAGGTGGGCCTGATG
GTGCAGGAGAGGTTTGGGAGAAGTCTGTGGAACCTGGAGGAAACAATGCCATTATTGCCTTTGAAGATGCAGAC
CTCAGCTTAGTTGTTCCATCAGCTCTCTCGCTGCTGTGGGAACAGCTGGCCAGAGGTGTACCACTGCGAGGCCA
CTGTTTATACATGAAAGCATCCATGATGAGGTTGTAAACAGACTTAAAAAGGCCTATGCACAGATCCGAGTTGGG
AACCCATGGGACCCTAATGTTCTCTATGGGCCACTCCACACCAAGCAGGCAGTGAGCATGTTTCTTGAGCAGTG
GAAGAAGCAAAGAAAGAAGGTGGCACAGTGGTCTATGGGGGCAAGGTTATGGATCGCCCTGGAATTTATGTAGAA
CCGACAATTGTGACAGGTCTTGGCCACGATGCGTCCATTGCACACACAGAGACTTTCGCTCCGATTCTCTATGTC
TTTAAATTCAGAATGAAGAAGAGGTCTTTGCATGGAATAATGAAGTAAACAGGGACTTTCAGTAGCATCTTT
ACCAAAGATCTGGGCAGAATCTTTCGCTGGCTTGGACCTAAAGGATCAGACTGTGGCATTGTAAATGTCAACATT
CCAACAAGTGGGGCTGAGATTGGAGGTGCCTTTGGAGGAGAAAAGCACACTGGTGGTGGCAGGGAGTCTGGCAGT
GATGCCTGGAAACAGTACATGAGAAGGTCTACTTGTACTATCAACTACAGTAAAGACCTTCTCTGGCCCAAGGA
ATCAAGTTTCAGTAAAGGTGTTTTAGATGAACATCCCTTAATTTGAGGTGTTCCAGCAGCTGTTTTTGGAGAAGA
CAAAGAAGATTAAAGTTTTCCCTGAATAAATGCATTATTATGACTGTGACAGTACTAATCCCCCTATGACCCCA
AAGCCCTGATTAAATCAAGAGATTCCCTTTTTTAAAAATCAAATAAAATTGTTACAACATAGCCATAGTTACTAA
AAAAAAAA

854/2777
FIGURE 755

MSTLLINQPQYAWLKEGLREENEGVYNGSWGGRGEVITTYCPANNEPIARVRQASVADYEETVKKAREAWKIWA
DIPAPKRGEIVRQIGDALREKIQVLGSLVSLEMKGILVEGVGEVQEYVDICDYAVGLSRMIGGPILPSERSGHAL
IEQWNPVGLVGIITAFNFPVAVYGWNNAIAMICGNVCLWKGAPTTSLISVAVTKIIAKVLEDNKLPGAICSLTCG
GADIGTAMAKDERVNLLSFTGSTQVGKQVGLMVQERFGRSLELGGNNAI IAFEDADLSLVVPSALFAAVGTAGQ
RCTTARRLFIHESIHDDEVNRLKKAYAQIRVGNPWPDPNVLYGPLHTKQAVSMFLGAVEEAKKEGGTVVYGGKVMD
RPGNYVEPTIVTGLGHDASIAHTETFAPILYVFKFKNEEEVFAWNNNEVKQGLSSSIFTKDLGRIFRWLGPKGSDC
GIVNVNIPTSGAEIGGAFGGEKHTGGGRESGSDAWKQYMRRSTCTINYSKDLPLAQGIKFQ

855/2777
FIGURE 756A

TCCACTCCTGGAGCCCGCGGACCCCGAGCAGCGCCTGACAGCCCTGCTGGCCCGGCGCGCGGCGTCCGAGGC
CAGCTATGGCCCCCGACCCGGTGGCCGCCGAGACCGCGGCTCAGGGACCTACCCCGCGCTACTTCACCTGGGACG
AGGTGGCCAGCGCTCAGGGTGCAGGAGCGGTGGCTAGTGATCGACCGTAAGGTGTACAACATCAGCGAGTTCA
CCCGCCGGCATCCAGGGGGCTCCCGGTCATCAGCCACTACGCCGGGAGGATGCCACGGATCCCTTTGTGGCCT
TCCACATCAACAAGGGCCTTGTGAAGAAGTATATGAACTCTCTCCTGATTGGAGAACTGTCTCCAGAGCAGCCCA
GCTTTGAGCCCAACAAGAATAAAGAGCTGACAGATGAGTTCCGGGAGCTGCGGGCCACAGTGGAGCGGATGGGGC
TCATGAAGGCCAACCATGTCTTCTTCTGCTGTACCTGCTGCACATCTTGCTGCTGGATGGTGCAGCCTGGCTCA
CCCTTTGGGTCTTTGGGACGTCTTTTGGCCCTTCTCCTCTGTGCGGTGCTGCTCAGTGCAGTTCAGGCCCAGG
CTGGCTGGCTGCAGCATGACTTTGGGCACCTGTGCGTCTTCAGCACCTCAAAGTGGAACCATCTGCTACATCATT
TTGTGATTGGCCACCTGAAGGGGGCCCCGCCAGTTGGTGGAACCACATGCACTTCCAGCACCATGCCAAGCCCA
ACTGCTTCCGCAAAGACCCAGACATCAACATGCATCCCTTCTTCTTTGGCCTTGGGGAAGATCCTCTCTGTGGAGC
TTGGGAAACAGAAGAAAAATATATGCCGTACAACCACCAGCACAAATACTTCTTCTTAATTGGGCCCCAGCCT
TGCTGCCTCTCTACTTCCAGTGGTATATTTTCTATTTTGTATCCAGCGAAAGAAGTGGGTGGACTTGGCCTGGA
TGATTACCTTCTACGTCCGCTTCTTCTCACTTATGTGCCACTATTGGGGCTGAAAGCCTTCTTGGGCCTTTTCT
TCATAGTCAGGTTCTTGAAAGCAACTGGTTTGTGTGGGTGACACAGATGAACCATATTCCCATGCACATTGATC
ATGACCGGAACATGGACTGGGTTTCCACCCAGCTCCAGGCCACATGCAATGTCCACAAGTCTGCCTTCAATGACT
GGTTCAGTGGACACCTCAACTTCCAGATTGAGCACCATCTTTTCCACGATGCCTCGACACAATTACCACAAAG
TGGCTCCCCTGGTGCAGTCCTTGTGTGCCAAGCATGGCATAGAGTACCAGTCCAAGCCCCTGCTGTGAGCCTTCCG
CCGACATCATCTCACTCACTAAAGGAGTCAGGGCAGCTCTGGCTAGATGCCTATCTTCCACCAATAACAACAGCCAC
CCTGCCCAGTCTGGAAGAAGAGGAGGAAGACTCTGGAGCCAAGGCAGAGGGGAGCTTGAGGGACAATGCCACTAT
AGTTTAATACTCAGAGGGGGTTGGGTTTGGGGACATAAAGCCTCTGACTCAAACCTCCTCCCTTTTATCTTCTAGC
CACAGTTCTAAGACCCAAAGTGGGGGGTGGACACAGAAGTCCCTAGGAGGGAAGGAGCTGTTGGGGCAGGGGTGT
AAATTATTTCTTTTTTCTAGTTTGGCACATGCAGGTAGTTGGTGAACAGAGAGAACCAGGAGGGTAACAGAAGAG
GAGGGACCTACTGAACCCAGAGTCAGGAAGAGATTTAACTATAAATTCCACTCATGCCGGGCGTGGTGGCACGC
GCCTGTAATCCCAGCTACCCAGGAGGCTGAGGCAGGAGAATCGCTTGAACCGGGGAGGTGGAGGTTGCAGTGAGC
TGAGATCACGCCATTGTACTCCAGCCTGGGCGACAGAGCAAGACTCCATTTCAAAAAAAAAAAAAAAAAATCCACTC
ATATAAAAGGTGAGCTCAGCTCACTGGTCCATTTCTCAGTGGCTTCTCCATCCTCATTTGCAACCTCAGAGGGA
TAAGGCAGTTGAACCTGATGAGCAAGAATTATAACAGCAAGGAAACATTAATGCTTAGAATTCTGAGATCCAGCA
CAACTCAGTCTGTGGGAGCTCAGCTCGCTGCCAGGGATAGGTATGACCTATGTCTGCCTTAGGCTGCTGGGAGA
TGCCATTCTCCAGTTTCAAGAAGCAGGCAGGGCAAAGGTCAAGACTGTGGTATTGGGGTCTTTTGGCTCTGAAGGA
TCCTGGAACCACTGATTTTGGTTTATTCCCTCCAGGGTCTAAAGAGAACAAGAGGTGCTAGCTCTTACCAAAACA
GATGGTAGAGAGAGTTGCTGGCTATTTAAAAAGCTCTTTCATCTTTTAATTCACCTCTTCTTTTACCTCTTTAA
CCACTCCTCAGGAACAGAACACTTCTAGGACTGGGGTCTTTTAGCTCCATAAGCAAGTGAGCAGATGGGACAAG
TTAGTCTTTTCTCCCTAGAAACAAAGGGGATGCCAGTGGTTTCCCTTTGCTTCCCAACCTAAAATTTCAAGTTT
AATAAAATAGCAATTAGCAGAAGTGACCAAAATTGGGAGATAATTATCAGTCATGAGGAAAGACACAGATTTCCGT
CATAAAGAATGTAAGGGCTATAAGTAGAACTTTCTATAACCTAAATGATGTTATAGAATTATTTTGGAGCAGGA
GCAGAAAGATTAAATATGATCACTTCACTTCTAAATCAGAAATAGGAAGATTAAACCACAGAACAGTTTGTG
ATTTCTATTGCTGTAGCTAGGTATCTTACTCTGTCCACTCTTGTTCAAGTATCTAACTCTTCTGGAAACCAAATA
GGCTTTAGAAGAGATTATCCTATATTCTATCAGTATAATACTAAAATGTAACCTTTTAAATCATCTGGTTTTTAA
AAGATAAACAGTTTAGCCCATCTCTCCAGAGAGCAAACATAGGAATATGACTCAGGAGCCTCCTAGGGCTTATCA
TCAGCCCTCACACCCGCTTCCCCCTCAACCCACAGCCTTTGCTTCCAGGTGGCAGGATTACTACTTTGCCTCTT
CAGCAGCATCTACTCTAGGCATATTGATCATTTTAGACACTGGGAGAAGAGAACCTCAAACCTAGGAGGAAAAGAC
AGAGCCTCCACTTAGTTTTGGGAGGGGATGGCAGACAGTCAAGGAGATGAGCGTCCTAAGGCATGTTGGGATAGG
GTCAGATGCACCCCATGGAGAGGTTTGTCAACACAAAGACATGGAAGGTTAGAGGTTTGTCAACAAAAAGACA
TGGAAGGTTAGGTTTGTCAACACAAAGACATGGAAGATTAGAGGTTTGTCAACACAAAGACACAGGAAGAATGGG
CTGCAGAAGATTTAGATGTTTTCCATTTGGGCACATTTTACTTAGCTGGAGAACTAGGTTTAAAACAGCCTGGGT
AGGAAAATTAGAAGCAAGCTGGATGCAGTGGCTCATGCCTGTAATCCCAACACTTTTGGGAGGTCCAGGCAGGAG
GATCACTTGGGCCAGGAGGTCAAGCCTGCAGCGAGCTGAGATCACACCACTGCACTCCAGCCTGGGGTGATAGA

856/2777
FIGURE 756B

ACAAGACCCTGTCTCAAAAAAAAAAAAAACAACAAAACTTAGAATTGAGGAGTTGTACCTCCATTGGCTTCCT
CACTCCAAAATAGGTGCTGATCCTTCCTATTCTATTCTTTGCCACCTTTTGGGTGTGGTGTACCAGCCTGTTT
AGCCAAGTAGCTTTGGGCATAGGCTGCCCAATCTGAGCAAAACACCAGTGAGGCTCTATTGAGCCAAGACCAAGTC
CTCAAAGCACCTGAACCACTGTGGCCTTCTCAGCCTACAGCAGTGTTGGTCTCTTACATGGCCACAAAGGGACACA
CAGTGACAAAAGGCTCGGAATGTTACAATGGTAAAATGAGTGATCTCAAATCCACTGACAGATATAAAATAGGCT
TAGAGAGGAAAAGCTGCCTCTGGTCAAGTAGATCATGGCAGCATGAATTCCAACCTCACTTTTTTACAACCTCAAC
TTCTATGTTTATCTTTGTTACTTTCACTTTTTTACAACCTGGCCAGAGGCATTTTTTAAATCAGGCCCAATATCA
GTATTCTTTTTGTGTGTGCCAATTTTGTTATCACATCCCTATGAAGTTGAAAAATAAAGTTAATTTTGACCAAAA
AAAAAAAAAAAAAG

857/2777
FIGURE 757

MAPDPVAAETAAGPTPRYFTWDEVAQRSGCEERWLVIDRKVYNISEFTRRHPGGSRVISHYAGQDATDPFVAFH
INKGLVKKYMNSLLIGELSPEQPSFEPTKNKELTDEFREL RATVERMGLMKANHVFFLLYLLHILLDDGAAWLTL
WVFGTSFLPFLLCAVLLSAVQAQAGWLQHDFGHLSVFSKWNHLLHHFVIGHLKGAPASWWNHMHFQHHAKPNC
FRKDPDINMHPFFALGKILSVELGKQKKKYPYNHGHKYFFLIGPPALLPLYFQWYIFYFVIQRKKWVDLAWMI
TFYVRFFLTYPVLLGLKAFLGLFFIVRFLESNWFVWVTQMNHMPMHIDHDRNMDWVSTQLQATCNVHKSANDF
SGHLNFQIEHHLFPTMPRHHYHKVAPLVQSLCAKHGIEYQSKPILLSAFADIIHSLKESGQLWLDAYLHQ

858/2777
FIGURE 758

GGTTTCCGGAGCTGCGGCGGCGCAGACTGGGAGGGGGAGCCGGGGGTTCGACGTGCGAGCCGAGGGAACAAGCC
CCAACCGGATCCTGGACAGGCACCCCGGCTTGGCGCTGTCTCTCCCCCTCGGCTCGGAGAGGCCCTTCGGCCTGA
GGGAGCCTCGCCGCCCCGTCCCCGGCACACGCGCAGCCCCGGCCTCTCGGCCTCTGCCGGAGAAAACAGGATGGCCC
AATGGAATCAGCTACAGCAGCTTGACACACGGTACCTGGAGCAGCTCCATCAGCTCTACAGTGACAGCTTCCCAA
TGGAGCTGCGGCAGTTTCTGGCCCCCTGGATTGAGAGTCAAGATTGGGCATATGCGGCCAGCAAAGAATCACATG
CCACTTTGGTGTTCATAATCTCCTGGGAGAGATTGACCAGCAGTATAGCCGCTTCCTGCAAGAGTCGAATGTTT
TCTATCAGCACAAATCTACGAAGAATCAAGCAGTTTCTTCAGAGCAGGTATCTTGAGAAGCCAATGGAGATTGCC
GGATTGTGGCCCGGTGCCTGTGGGAAGAATCACGCCTTCTACAGACTGCAGCCACTGCGGCCAGCAAGGGGGCC
AGGCCAACACCCACAGCAGCCGTGGTGACGGAGAAGCAGCAGATGCTGGAGCAGCACCTTCAGGATGTCCGGA
AGAGAGTGCAGGATCTAGAACAGAAAATGAAAGTGGTAGAGAATCTCCAGGATGACTTTGATTTCACATATAAAA
CCCTCAAGAGTCAAGGAGACATGCAAGATCTGAATGGAAACAACCAAGTCAGTGACCAGGCAGAAGATGCAGCAGC
TGGAACAGATGCTCACTGCGCTGGACCAGATGCGGAGAAGCATCGTGAGTGAGCTGGCGGGGCTTTTGTGTCAGCGA
TGGAGTACGTGCAGAAAACCTCTCACGGACGAGGAGCTGGCTGACTGGAAGAGGCGGCAACAGATTGCCTGCATTG
GAGGCCCGCCCAACATCTGCCTAGATCGGCTAGAAAACCTGGATAACGTCATTAGCAGAATCTCAACTTCAGACCC
GTCAACAAATTAAGAAAACCTGGAGGAGTTGCAGCAAAAAGTTTCTTACAAAGGGGACCCCATTTGTACAGCACCGGC
CGATGCTGGAGGAGAGAATCGTGGAGCTGTTTAGAAAACCTTAATGAAAAGTGCCTTTGTGGTGGAGCGGCAGCCCT
GCATGCCCATGCATCCTGACCGGCCCTCGTCATCAAGACCGGCGTCCAGTTCATACTAAAGTCAGGTTGCTGG
TCAAAATTCCTGAGTTGAATTATCAGCTTAAATTAAGTGTGCATTGACAAAGACTCTGGGGACGTTGCAGCTC
TCAGAGGATCCCGGAAATTTAACATCTGCGGCACAAACACAAAAGTGATGAACATGGAAGAATCCAACAACGGCA
GCCTCTCTGCAGAATTCAAACACTTGACCCTGAGGGAGCAGAGATGTGGGAATGGGGGCGGAGCCAATTGTGATG
CTTCCCTGATTGTGACTGAGGAGCTGCACCTGATCACCTTTGAGACCGAGGTGTATCACCAAGGCCTCAAGATTG
ACCTAGAGACCCACTCCTTGCCAGTTGTGGTGATCTCCAACATCTGTCAGATGCCAAATGCCTGGGCGTCCATCC
TGTGGTACAACATGCTGACCAACAATCCCAAGAATGTAACTTTTTTACCAAGCCCCCAATTGGAACCTGGGATC
AAGTGGCCGAGGTCTGAGCTGGCAGTTCTCCTCCACCACCAAGCGAGGACTGAGCATCGAGCAGCTGACTACAC
TGGCAGAGAACTCTTGGGACCTGGTGTGAATTATTCAGGGTGTGAGATCACATGGGCTAAATTTTGCAAAAGAAA
ACATGGCTGGCAAGGGCTTCTCCTTCTGGGTCTGGCTGGACAATATCATTGACCTTGTGAAAAAGTACATCCTGG
CCCTTTGGAACGAAGGGTACATCATGGGCTTTATCAGTAAGGAGCGGGAGCGGGCCATCTTGAGCACTAAGCCTC
CAGGCACCTTCTGTAAAGATTAGTGAAAGCAGCAAAGAAGGAGGCGTCACTTTCACTTGGGTGGAGAAGGACA
TCAGCGGTAAGACCCAGATCCAGTCCGTGGAACCATACACAAAGCAGCAGCTGAACAACATGTCAATTTGCTGAAA
TCATCATGGGCTATAAGATCATGGATGCTACCAATATCCTGGTGTCTCCACTGGTCTATCTCTATCCTGACATTC
CCAAGGAGGAGGCATTGCGAAAGTATTGTGCGCCAGAGAGCCAGGAGCATCCTGAAGCTGACCCAGGCGCTGCCC
CATACCTGAAGACCAAGTTTATCTGTGTGACACCAACGACCTGCAGCAATACCATTGACCTGCCGATGTCCCCC
GCACCTTAGATTCAATTGATGCAGTTTGGAAATAATGGTGAAGGTGCTGAACCCTCAGCAGGAGGGCAGTTTGAGT
CCCTCACCTTTGACATGGAGTTGACCTCGGAGTGCGCTACCTCCCCCATGTGAGGAGCTGAGAACGGAAGCTGCA
GAAAGATACGACTGAGGCGCCTACCTGCATTCTGCCACCCCTCACACAGCCAAACCCAGATCATCTGAAACTAC
TAACCTTTGTGGTTCCAGATTTTTTTTTTAATCTCCTACTTCTGTCTATCTTTGAGCAATCTGGGCACTTTTAAAAATA
GAGAAATGAGTGAATGTGGGTGATCTGCTTTTATCTAAATGCAAATAAGGATGTGTTCTCTGAGACCCATGATCA
GGGATGTGGCGGGGGGTGGCTAGAGGGGAGAAAAAGGAAATGTCTTGTGTTGTTTTGTTCCCTGCCCTCCTTTC
TCAGCAGCTTTTTGTTATTGTTGTTGTTGTTCTTAGACAAGTGCCTCCTGGTGCCTGCGGCATCCTTCTGCCTGT
TTCTGTAAGCAAATGCCACAGGCCACCTATAGCTACATACTCCTGGCATTGCACTTTTTTAACCTTGCTGACATCC
AAATAGAAGATAGGACTATCTAAGCCCTAGGTTTCTTTTTAAATTAAGAAATAATAACAATTAAGGGGCAAAAAA
CACTGTATCAGCATAGCCTTTCTGTATTTAAGAACTTAAGCAGCCGGGCATGGTGGCTCACGCCTGTAATCCCA
GCACCTTTGGGAGGCCGAGGCGGATCATAAGGTGAGGAGATCAAGACCATCCTGGCTAACACGGTGAAACCCCGTC
TCTACTAAAAGTACAAAAAATTAGCTGGGTGTGGTGGTGGGCGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGC
AGGAGAATCGCTTGAACCTGAGAGGCGGAGGTTGCAGTGAGCCAAAATTGCACCACTGCACACTGCACTCCATCC
TGGGCGACAGTCTGAGACTCTGTCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

859/2777
FIGURE 759

MAQWNQLQQLDTRYLEQLHQLYSDSFPMELRQFLAPWIESQDWAYAASKESHATLVFHNLLGEIDQQYSRFLQES
NVLYQHNLRRIKQFLQSRYLEKPMEIARIVARCLWEESRLLQTAATAAQGGQANHPTAAVVTEKQQMLEQHLQD
VRKRVQDLEQKMKVVENLQDDDFDFNYKTLKSQGDMDLNGNNSVTRQKMQQLEQMLTALDQMRRSIVSELAGLL
SAMEYVQKTLTDEELADWKRRQIACIGGPPNICLDRLNWNITSLAESQLQTRQQIKKLEELQQKVSYPKGDPIVQ
HRPMLERIVELFRNLMKSAFVVERQPCMPMHPDRPLVIKTGVQFTTKVRLLVKFPELNYQLKIKVCIDKDSGDV
AALRGSRKFNILGTNTKVMNMEESNNGSLSAEFKHLTLREQRCGNGGRANCDASLIVTEELHLITFETEVYHQGL
KIDLETHSLPVVISNICOMPNAWASILWYNMLTNNPKNVNFFTKPPIGTWDQVAEVLWSQFSSTTKRGLSIEQL
TTLAEKLLGPGVNYSGCQITWAKFCKENMAGKGSFVWVLDNIIDLKYYILALWNEGYIMGFISKERERAILST
KPPGTFLRLRFSESSKEGGVTFTWVEKDISGKTQIQSVEPYTKQQLNNMSFAEIIMGYKIMDATNILVSPLVYLYP
DIPKEEAFGKYCRPESQEHPEADPGSAAPYLKTKFICVTPTTCSNTIDLPMSPRTLDSLMOFGNNGEGAEPSSAGG
QFESLTFDMELTSECATSPM

860/2777
FIGURE 760

GACTACATCGATGCGCAGTTTGAAAATTATCTGCAGGAGGAGCTGAAGATCCGCCGCTCGCTCTTCGACTACCAT
GACACAAGGATCCACGTTTGCCCTCTACTTCATCACGCCCACAGGGCACTCCCTGAAGTCTCTAGATCTAGTGACC
ATGAAGAAACTAGACAGCAAGGTGAACATTATTCCCATCATCGCCAAGGCTGACACCATCTCCAAGAGCGAGCTC
CACAAGTTCAAGATCAAGATCATGGGCGAGTTGGTCAGCAACGGGGTCCAGATCTACCAGTTCCCCACGGATGAT
GAGGCTGTTGCAGAGATTAACGCAGTCATGAATGCACATCTGCCCTTTGCCGTGGTGGGCAGCACCCGAGGAGGTG
AAGGTGGGGAACAAGCTGGTCCGAGCACGGCAGTACCCCTGGGGAGTGGTGCAGGTGGAGAATGAGAATCACTGC
GACTTCGTGAAGCTGCGGGAGATGTTGATCCGGGTGAACATGGAAGACCTCCGCGAGCAGACCCACAGCCGGCAC
TACGAGCTCTACCGGCGCTGCAAGTTGGAGGAGATGGGCTTTTCAGGACAGCGATGGTGACAGCCAGCCCTTCAGC
CTACAAGAGACATACGAGGCCAAGAGGAAGGAGTTCTTAAGTGAGCTGCAGAGGAAGGAGGAAGAGATGAGGCAG
ATGTTTGTCAACAAAGTGAAGGAGACAGAGCTGGAGCTGAAGGAGAAGGAAAGGGAGCTCCATGAGAAGTTTGAG
CACCTGAAGCGGGTCCACCAGGAGGAGAAGCGCAAGGTGGAGGAAAAGCGCCGGGAAGTGGAGGAGGAGACCAAC
GCCTTCAATCGCCGGAAGGCTGCGGTGGAGGCCCTGCAGTCGCAGGCCCTGCACGCCACCTCGCAGCAGCCCTG
AGGAAGGACAAGGACAAGAAGAATTAACGCACGCACAGACTTACATGTCAAGAGTGGACTTTAGACTTTCATGTG
TTAAGTTGCTTGAGTTACACCTTGTGACCCCTTCTCCATAACATGGTGTGAGGACGGACTGGGAGCCGGTACAGA
CTCCAGTGTTTACAGCCTTGCTTTCTCCACCGACCCCTGGCCCCAGGCTGCCCCGGGCTGGCGGGCCACCCCT
CTCTATGCAAAACACGTAAAAGCCATGAATGCTGGAATCCAAACTGACGAGGTTTATTTTTTTCAGAGCCAGTGG
CTGGTCTTCCATTTACAGTGTCACTATTCCCTGACGGAGCTGTTATGTGCCGCTCTAGCGAAGGCCCCAGCCGGG
ATGCTAGGCCTAATTGTTTCAGCGTGGAGATGGCAACTCACGTGGTGCCCTAGGTGCAGCTGCGTGGTCTGGTATA
CATGCTGCAAAATTCACCCAGTTCCCCTCATTTTAATTTTTCTAACCTACAGCTTAATTTTAATAACTTTAAAC
ACTTCTAAATATTTATTTTGGCACCAGCGTCAAGACAAATAATATCCTCTCCCATTTTTCATAAGTAACACAG
ATTCCCTGATTTTTTAAAAACTAAAAATACAGCTAAACCTTTCTTATGTATAAAGTATGCCTATCATATACAGGGA
GAGGTGGGTAATAAACTTCCTGTAATGACAAAAAAAAAAAAAAAAA

861/2777
FIGURE 761

MKKLDSKVNIIPIIAKADTIŠKSELHKFKIKIMGELVSNGVQIYQFFTDDEAVAEINAVMNAHLPFVAVVGSTEEV
KVGNKLVRRARQYPWGVVQVENENHCDFVKLREMLIRVNMEDLREQTHSRHYELYRRCKLEEMGFQSDGDSQPFS
LQETYEAKRKEFLSELQRKEEEMRQMFVNKVKETELKEKERELHEKFEHLKRVHQEEKRKVEEKRRELEETN
AFNRRKAAVEALQSQUALHATSQQPLRKDKDKKN

862/2777
FIGURE 762

AGAGAGGAGCCGACTCGGCAGGGAAGTGGGGACCGGGCCGAGAGTGCGAGCGAGCGAGGGAGGGAGTGAGGGAGC
GTGCGAGCCAGAAGGGGAAAGGCGGCCACTCGTGCCGTAGCGACCGCAGAGGGGAGTGGGAGCAGTGGGGTAAAG
GAGCGGGGGGCGGGAATAAGAAAGGCCGAGAGAAGGCGGACAGAGGGCTAGTGGTGGTGGTGGTGGTAGGGGGAGA
AGGAGGAGCTGGAGGAGGGCAGGGGCTGAGGGAGTGAGTGAAGCGGACGCGCGAGGGAGGGGAGGGGAAGGGAAGG
GAAGGGAAGGGGGGGTACGCGGGGGCGCGCGCGCACCGGGAGCGCGCTCGGAGGCGAGTGGAACTGGATCGG
GTTTGTGCCAGCGGCGTGAGCTTTCGGCCGCCATTTTACAACAGCTCCACTCGCGCCGGACACAGGGAGCAGCGA
GCACGCGTTTTCCCGCAACCCGATACCATCGGACAGGATTTCTCCGCCTCAGCCCAACGGGGAGATCTCTGGAAC
ATGGCTACAGAACATGTTAATGGAATGGTACTGAAGAGCCCATGGATACTACTTCTGCAGTTATCCATTCAGAA
AATTTTCAGACATTGCTTGATGCTGGTTTACCACAGAAAGTTGCTGAAAACTAGATGAAATTTACGTTGCAGGG
CTAGTTGCACATAGTGATTTAGATGAAAGAGCTATTGAAGCTTTAAAGAATTCAATGAAGACGGTGCATTGGCA
GTTCTTCAACAGTTTAAAGACAGTGATCTCTCATGTTTCAAGCAAAAAGTGCCTTTTTATGTGGAGTCATGAAG
ACTTACAGGCAGAGAGAAAAACAAGGGACCAAAGTAGCAGATTCTAGTAAAGGACCAGATGAGGCAAAAATTAAG
GCACCTTTGGAAAGAACAGGCTACACACTTGATGTGACCACTGGACAGAGGAAGTATGGAGGACCACCTCCAGAT
TCCGTTTATTGAGGTCAGCAGCCTTCTGTTGGCACTGAGATATTTGTGGGAAAGATCCCAAGAGATCTATTTGAG
GATGAACCTGTTCCATTATTTGAGAAAGCTGGACCTATATGGGATCTTCGTCTAATGATGGATCCACTCACTGGT
CTCAATAGAGGTTATGCGTTTGTCACTTTTTGTACAAAAGAAGCAGCTCAGGAGGCTGTTAACTGTATAATAAT
CATGAAATTCGTTCTGGAAACATATTGGTGTCTGCATCTCAGTTGCCAACAATAGGCTTTTTGTGGGCTCTATT
CCTAAGAGTAAACCAAGGAACAGATTCTTGAAGAATTTAGCAAAGTAACAGAGGGTCTTACAGACGTCATTTTA
TACCACCAACCGGATGACAAGAAAAAAGCAGGAGCTTTTGCTTTCTTGAATATGAAGATCACAAAACAGCTGCC
CAGGCAAGGCGTAGGTTAATGAGTGGTAAAGTCAAGGTCTGGGGGAATGTTGGAACGTTGAATGGGCTGATCCT
ATAGAAGATCCTGATCCTGAGGTTATGGCAAAGGTAAAAGTGCTGTTTGTACGCAACCTTGCCAATACTGTAACA
GAAGAGATTTTAGAAAAGGCATTTAGTCAGTTTGGGAACTGGAACGAGTGAAGAAGTTAAAAGATTATGCGTTC
ATTCATTTTGATGAGCGAGATGGTGCTGTCAAGGCTATGGAAGAAATGAATGGCAAAGACTTGAGGGGAGAAAAT
ATTGAAATGTTTTTGCCAAGCCACCAGATCAGAAAAGGAAAGAAAGAAAGCTCAGAGGCAAGCAGCAAAAAT
CAAATGTATGACGATTACTACTATTATGGTCCACCTCATATGCCCCCTCCAACAAGAGGTCGAGGGCGTGGAGGT
AGAGGTGGTTATGGATATCCTCCAGATTATTATGGATATGAAGATTATTATGATTATTATGGTTATGATTACCAT
AACTATCGTGGTGGATATGAAGATCCATACTATGGTTATGAAGATTTTCAAGTTGGAGCTAGAGGAAGGGGTGGT
AGAGGAGCAAGGGGTGCTGCTCCATCCAGAGGTGCTGGGGCTGCTCCTCCCCGCGGTAGAGCCGGTTATTACAG
AGAGGAGGTCTGGATCAGCAAGAGGCGTTGAGGTGCGAGAGGAGGTGCCCAACAACAAAGAGGCCGCGGGGTA
CGTGGTGCGAGGGGTGGCCGCGGTGGAATGTAGGAGGAAAGCGCAAAGCTGATGGGTACAACCAGCCAGATTCC
AAGCGGCGCCAGACCAATAATCAGAACTGGGGCTCCCAACCCATTGCTCAGCAACCGCTCCAAGGTGGTGATCAT
TCTGGTAACTATGGTTACAAATCTGAAAACCAGGAGTTTTATCAGGATACTTTTGGGCAACAGTGAAGTTAGAAA
CAGTAGGGCCTCTGTAAAAATTGGAGACTGATAGGTTGATCAGAACTCACCTAAATCTGAACGGGTGCCGCTAT
AATTTGTGACATCTGGCAAGATTTCCCTTTATGTATATATTTTAAACAATCCGCTTGACACGAACAAAGCCACAC
TTCTAACTGCTTCTGGCGAAGTATTTTATTTTTTAAATTTTTTCAATAAAGATATTCTTAGATACTGAAAGAAAT
AGTTAATGAGTTTGCAATTTGTGCTTGAGAAAATTTGGCTCAAGTCCATTTGGCTGTAGTGTCACGATGTTTCCA
GTAGTGTTTAGATTTGGTGCTTCAAAGGTAGTTGATTAACCAAGTGTGTCTTTAATATCTTGTATCAGAATA
ACTTTGTATGTTACCAACTTAAATTGCTAGATAAAGTAAATTGATACACAAGTCTATTTTTAATTTAGAACTT
TGACCTAATTTGGGTTTTCAAACCATTTTGGCTACTTGATTCTTTATGCTGTTGTTTATTTCAATAAAAAAT
CACACCT

863/2777
FIGURE 763

MATEHVNGNGTEEPMDTTSAVIHSENFQTL LDAGLPQKVAEKLDEIYVAGLVAHSDLDERAIEALKEFNEDGALA
VLQQFKDSDL SHVQNKSAFLCGVMKTYRQREKQGTKVADSSKGPDEAKIKALLERTGYTLDVTTGQRKYGGPPPD
SVYSGQQPSVGTEIFVGKIPRDLFEDELVPLFEKAGPIWDLRLMMDPLTGLNRGYAFVTFCTKEAAQEAVKLYNN
HEIRSGKHIGVCISVANNRLFVGSIPKSKTKEQILEEFSKVTEGLTDVILYHQPDDKKKNRSFCFLEYEDHKTA
QARRRLMSGKVKVWGNVGTVEWADPIEDPDPEVMAKVVLFRNLANTVTEEILEKAFSQFGKLERVKKLKDYAF
IHFDERDGAVKAMEEMNGKDLEGENIEIVFAKPPDQKRKERKAQRQAANKQMYDDY YYYGPPHMPPTTRGRGRGG
RGGYGYPPDY YGYEDYDYGYDYHNYRGGYEDPY YGYEDFQVGARGRGGRGARGAAPSRGRGAAPPRGRAGYSQ
RGGPGSARGVRGARGGAQQQRGRGVARGGRGGNVGGKRRKADGYNQPD SKRRQTNNQNWGSQPIAQQPLQGGDH
SGNYGYKSENQEFYQDTFGQQWK

864/2777
FIGURE 764

GAGCATGGAGGCGGGGGCGGCTGAGGCAGCTGTAGCGGCCGTGGAGGAGGTCGGCTCAGCCGGGCAGTTTGAGGA
GCTGCTGCGCCTCAAAGCCAAGTCCCTCCTTGTGGTCCATTTCTGGGCACCATGGGCTCCACAGTGTGCACAGAT
GAACGAAGTTATGGCAGAGTTAGCTAAAGAAGTCCCTCAAGTTTCATTTGTGAAGTTGGAAGCTGAAGGTGTTCC
TGAAGTATCTGAAAAATATGAAATTAGCTCTGTTCCCACTTTTCTGTTTTTCAAGAATTCTCAGAAAAATCGACCG
ATTAGATGGTGCACATGCCCCAGAGTTGACCAAAAAAGTTCAGCGACATGCATCTAGTGGCTCCTTCCTACCCAG
CGCTAATGAACATCTTAAAGAAGATCTCAACCTTCGCTTGAAGAAATTGACTCATGCTGCCCCCTGCATGCTGTT
TATGAAAGGAACTCCTCAAGAACCACGCTGTGGTTTTAGCAAGCAGATGGTGGAAATTCTTCACAAACATAATAT
TCAGTTTATGAGTTTTGATATCTTCTCAGATGAAGAGGTTTCGACAGGGACTCAAAGCCTATTCCAGTTGGCCTAC
CTATCCTCAGCTCTATGTTTCTGGAGAGCTCATAGGAGGACTTGATATAATTAAGGAGCTAGAAGCATCTGAAGA
ACTAGATAACAATTTGTCCCAAAGCTCCCAAATTAGAGGAAAGGCTCAAAGTGCTGACAAATAAAGCTTCTGTGAT
GCTCTTTATGAAAGGAAACAAACAGGAAGCAAAATGTGGATTAGCAAAACAAATTCTGGAAATACTAAATAGTAC
TGGTGTGTAATATGAAACATTTCGATATATTGGAGGATGAAGAAGTTCGGCAAGGATTAAAAGCTTACTCAAATTG
GCCAACATAACCTCAGCTGTATGTGAAAGGGGAGCTGGTGGGAGGATTGGATATTGTGAAGGAAGTGAAGAAAA
TGGTGAATTGCTGCCTATACTGAGAGGAGAAAAATTAATAAAATCTTAAACTTGGTGCCCACTATTACGGGGTCTG
GCTCTGTCAACCAGGCTGGAGTGCAGTGGCAGGATTATGGCTCATTGCAGCCTCGACTTCTCGGGGCCAAGCGAT
CCTCCTGCCTCAGCCTTCTGAGTAGCTGGGACCACAGGCGTGCACCACCATGCCCACCTAATTTTTTATTTCTTG
TAGAGATGAGGTCTCCTGCCTCAGCCTCCCAAAGTGCTGGAATTTACAGGAGTGTGGCTGTGCCCCTTGTGATG
GATGAGGAAAGGTATCCACCTTCTGAATCAGACACAAGCTGCAGTAGCTTCCTGATGCCTCATTACACAGGATG
GGTAACTTTAAAGACAAGTTTTATAACTGGCATCCCATCTGGTTTCAGAGTCTTGGGGGCTTTTTTCATACAGCT
TTGTCTGATATTTAGAGACATTCAGATTGAGAAGCCATGAGTTAGTTAGCTCATGGGCCGGGCACGTGCACTGA
CTCACTGGCTGCAGCAGAACACATTGAGGGAGTCTTGGTGCACCTAGGTCACTGTAAGGTTCTAGGGCTGGGAGC
TGGGATTTGAACCAGGATCTGTGAGCGCAGCCCCAGTGTGTGCTTGAAGCCTCGTGCCCACTGGCTTTGAGGT
AGCACGCTGCAAGTTAGTGAGTGGAGTTGCCCAAGTCTGGGGCTTCTGAAATGACCTGGTATTTTTATGTTCTG
TTAGAAATGGTGTGGCTTTCACAAATTAAGTGCCAGGCTGGGCACAATGGCTCGTGCTTGAATCCCAGCACTTT
GGGAGGCGGAGGCAGGCGGGTTGCTTGAGCTCCGGAGCTTGAGACCAGCCTGAGCAACATGGCGAAACCTCATAT
CTACAAAAAATAAAAAATTAAGTGGTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

865/2777
FIGURE 765

MEAGAAEAAVAAVEEVGSAGQFEELLRLKAKSLLVVHFWAPWAPQCAQMNEVMAELAKELPQVSFVKLEAGVPE
VSEKYEISSVPTFLFFKNSQKIDRLDGAHAPELTKKVQRHASSGSFLPSANEHLKEDLNLRLLKLTAAAPCMLFM
KGTPQEPRCGFSKQMV EILHKHNIQFSSFDIFSDEEVRQGLKAYSSWPTYPQLYVSGELIGGLDIKELEASEEL
DTICPKAPKLEERLKVLTNKASVMLFMKGNKQEAACGFSKQILEILNSTGVEYETFDILEDEEVRQGLKAYS NWP
TYPQLYVKGELVGGLDIVKELKENGELLPILRGEN

866/2777
FIGURE 766

GCTAACCTAGTGCCTATAGCTAAGGCAGGTACCTGCATCCTTGTTTTTGTTTAGTGGATCCTCTATCCTTCAGAG
ACTCTGGAACCCCTGTGGTCTTCTCTTTCATCTAATGACCCTGAGGGGATCGAGTTTTCAAGTCCTTCCAGAGAGG
AATGTCCCAAGCCTTTGAGTAGGGTAAGCATCATGGCTGGCAGCCTCACAGGTTTGCTTCTACTTCAGGCAGTGT
CGTGGGCATCAGGTGCCCGCCCTGCATCCCTAAAAGCTTCGGCTACAGCTCGGTGGTGTGTGCTGCAATGCCA
CATACTGTGACTCCTTTGACCCCCGACCTTTCCTGCCCTTGGTACCTTCAGCCGCTATGAGAGTACACGCAGTG
GGCGACGGATGGAGCTGAGTATGGGGCCCATCCAGGCTAATCACACGGGCACAGGCCTGCTACTGACCCTGCAGC
CAGAACAGAAGTTCCAGAAAGTGAAGGGATTTGGAGGGGCCATGACAGATGCTGCTGCTCTCAACATCCTTGCCC
TGTCACCCCTGCCCAAATTTGCTACTTAAATCGTACTTCTCTGAAGAAGGAATCGGATATAACATCATCCGGG
TACCCATGGCCAGCTGTGACTTCTCCATCCGCACCTACACCTATGCAGACACCCCTGATGATTTCCAGTTGCACA
ACTTCAGCCTCCCAGAGGAAGATACCAAGCTCAAGATACCCCTGATTACCCGAGCCCTGCAGTTGGCCAGCGTC
CCGTTTCACTCCTTGCCAGCCCTGGACATCACCCACTTGGCTCAAGACCAATGGAGCGGTGAATGGGAAGGGGT
CACTCAAGGGACAGCCCGGAGACATCTACCACAGACCTGGGCCAGATACTTTGTGAAGTTCTTGGATGCCTATG
CTGAGCACAAGTTACAGTTCTGGGCAGTGACAGCTGAAAATGAGCCTTCTGCTGGGCTGTTGAGTGGATACCCCT
TCCAGTGCCTGGGCTTACCCCTGAACATCAGCGAGACTTCATTGCCCGTGACCTAGGTCCTACCCTCGCCAACA
GTACTCACCACAATGTCCGCCTACTCATGCTGGATGACCAACGCTTGCTGCTGCCCCACTGGGCAAAGGTGGTAC
TGACAGACCCAGAAGCAGCTAAATATGTTTCATGGCATTGCTGTACATTGGTACCTGGACTTTCTGGCTCCAGCCA
AAGCCACCCTAGGGGAGACACACCGCCTGTTCCCCAACACCATGCTCTTTGCCTCAGAGGCCTGTGTGGGCTCCA
AGTTCTGGGAGCAGAGTGTGCGGCTAGGCTCCTGGGATCGAGGGATGCAGTACAGCCACAGCATCATCACGAACC
TCCTGTACCATGTGGTTCGGCTGGACCGACTGGAACCTTGCCCTGAACCCCGAAGGAGGACCCAATTGGGTGCGTA
ACTTTGTGACAGTCCCATCATTGTAGACATCACCAAGGACACGTTTTACAAACAGCCCATGTTCTACCACCTTG
GCCACTTCAGCAAGTTTATTCTGAGGGCTCCCAGAGAGTGGGGCTGGTTGCCAGTCAGAAGAACGACCTGGACG
CAGTGGCACTGATGCATCCCGATGGCTCTGCTGTTGTGGTCTGTGCTAAACCGCTCCTCTAAGGATGTGCCTCTTA
CCATCAAGGATCCTGCTGTGGGCTTCTGAGAGACAATCTCACCTGGCTACTCCATTTCACACCTACCTGTGGCATC
GCCAGTGAATGGAGCAGATACTCAAGGAGGCACTGGGCTCAGCCTGGGCATTAAAGGGACAGAGTCAGCTCACACG
CTGTCTGTGACTAAAGAGGGGCACAGCAGGGCCAGTGTGAGCTTACAGCGACGTAAGCCCAGGGGCAATGGTTTGG
GTGACTCACTTTCCCCTCTAGGTGGTGGCCAGGGCTGGAGGCCCTAGAAAAAGATCAGTAAGCCCCAGTGTCCC
CCCAGCCCCCATGCTTATGTGAACATGCGCTGTGTGCTGCTTGTGTTGGAACTXGCCTGGGTCCAGGCCTAGGG
TGAGCTCACTGTCCGTACAAACACAAGATCAGGGCTGAGGGTAAGGAAAAGAAGAGACTAGGAAAAGCTGGGCCCCA
AACTGGAGACTGTTTGTCTTTCCTAGAGATGCAGAACTGGGCCCGTGGAGCAGCAGTGTTCAGCATCAGGGCCGA
AGCCTTAAAGCAGCAGCGGGTGTGCCAGGCACCCAGATGATTCTATGGCACCAGCCAGGAAAAATGGCAGCTC
TTAAAGGAGAAAATGTTTGAGCCCA

867/2777
FIGURE 767

MEFSSPSREECPKPLSRV SIMAGSLTG LLLLQAVSWASGARPCIPKSFGYSSVVCV CNATYCD SFDPPTFPALGT
FSRYESTRSGRRMELSMGPIQANHTGTG LLLTLQPEQKFQKVKGFGGAMTDAAALNILALSPPAQNLLKSYFSE
EGIGYNIIRVPMASCD FSIRTYTYADTPDDFQLHNFSLP EEDTKLKIPLIHRALQLAQRV SLLASPWTSP TWLK
TNGAVNGKGS LKGQPGDIYHQTWARYFVKFLDAYAEHKLQFWAVTAENEP SAGLLSGYPFQCLGFTPEHQ RDFIA
RDLGPTLANSTHHNVRLMLDDQRL LLPHWAKVVLTDPEAAKYVHGIAVHWYLD FLAPAKATLGETHRLFPNTML
FASEACVGSKFWEQSVRLGSWDRGMQYSHS IITNLLYHVVGWTDWNLALNPEG GPNWVRNFVDSP IIVDITKDTF
YKQPMFYHLGHFSKFIPEG SQRVGLVASQKNDLDAVALMHPDGS AVVVVLNRSSKDVPLTIKDP AVGFLETISP G
YSIHTYLWHRQ

868/2777
FIGURE 768

TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCACAGTACAACCTCAACACTTTATTCCATTGTGATTGGTATACATGTAAGA
TTGAGACATCAAGAGACTAAAAATCAGTGCAGAACTTCTCTGAACTAAAGGGCCGTGAAAGGCATGATTGGTTTT
GGCACACAGAGTGGATAACCATAACATTGGCTGGAATGAGGTGGTCAGGAAAATAAAATGCACAAATCTAACACCA
TGTTGAAATCATGTCTGAGTTCTGGAGAAAGTTAAAGTGTAATAATTACAAAGACTGACATGCAACTCTTTACC
TTACATTATTCATCTACAGACTATTTTTCTCCCTTAGAGATGAGGAGATGGCCTTAGTAATCTGTTTCAGAGTAGC
TGAAAAGACCAATCAATACACATTAGAAAGATCTGCCTGATTTCTATAGCAATTCATTATAGCTGAAGAAATAAT
GCTAAATAATGTATTTTCTCTATATCATCCTTTAACTAAATTGAATCACATCACCCAAGTAATTTCTGACTTAACT
TTTACTTAGTTAAATATAATTTCTCCTGTCTTTTAAATGTCAAAAAGCAGTTTCCGTTAGTTTATCCATTGGTGTA
TATCACAACAGATGAGGAAAACCTTATGTGATAGTATCTTTCTTTTCAAAAATAACATTATGCTAATGAGAACAT
CAAAGAAGTAATACTATGCTGCAAGTAATTTAGGTTTTTACATCATCAATCATATAGGGAGTCCAAAGAAGCCAG
CCTAGCAGGTAACATAGCAGAGCAGAATGCAATGTAGAAGAGGCACACAGAGTCTAAGTGATTTCTCCAGACAAA
AGAGAAGGAAAGACAGAAAAGAAGCAAAAGAAAGGAAAAGTGAAAAACAGCCTTCTGCAGAACAAATTGTTACAAA
GAAAAATCTATTTGCTTGCAATTGATTAAACATAATAGAGAAGAGTTCTTTGATTTGGGATGATAGAAGTAAAGA
TATTAAAAATTATATGCTGGTAAGCCTAAACTGGCAGATTGGGCCATTTTTCTGTGGTTGTATTTGAGATGTTG
AGCTCTCACAGGGAGAATTTTTGCTTTTGCCAAGGAAGGGCCAGATTTAACCCAAAAGGACAACCTTGAGAACAT
TTTTCTTTGTTAACTTGCGCATGTGGCTAACATTGCTTCTCTCTGGTAAAAAGATATTATTTCATCTCTGATG
AGATGGTTCAAAATATGACAGTGACCAAGACGTGGTTTATTACAGGATGCACATAATTGGATATCTGCATATGG
CATGAATTAAGGAAAGTTAAGCAACAAGGAAGAGAAGGAGGAGAAAAAACTTTTGCAAAATTTCTGACATAAA
ATAATCAAAATAAAAGGGAAAGATAGTGGTTAAGGATGTTTTTCAATTTCTCAGAGGTTTCTCCTTCCATCTGCTAC
GGGGGAAATGAAATGAATGAAAGTAATTTCTTTTAGGTACCAACATAAGGAATAATTTGACTGCAACATAGAA
GTGAGCAGAGCAAGATTTGAAGTGATACTTCTTAATCTCTTTGATTCTTAATCTTAAACAACAAGCCACAGGCAA
TACAGGAAAGGTGGAGATGACTAGGAAGTGTGATAATGTGCCTGGATCAGTTACCATTTCATTGGAAAGTACCGTT
TCCCTGCTGTGTAATAGGCTGATTCCCTGCAGGTTTGAGTAAAGGAATCATCTCTTCTCCTTCAGTGCCGCATTGTT
CTTTGTAAGAGATCCGTGTCAGTTCAAAGTTGTGTAATTTAAAGGCTAGAGAAGAAAGAAGTTTAAATTGGATCC
CACAGTAAATATTCACGGATATTTCAAAGTAGAATTGTCCACTGTCTGGGGTTGGGTTCAAGCATCAAGGTGATC
GCTTCTGAACATGTTTCATTGACCATGAGGAGCTGTTTACTCTGGCTCATATTAGACTACCAGTAATTATTTTCA
GACATGATGTCTCTTTTGAAAGAAATGACTTTGCTGGACTAGGATAACTGCAGGGGTAGAAGACTGGAAATACGG
TGAGTCAGGGTAGGTGGAAACAGAAATGAGTAGAAGGAAAAAAGAGTTCTCCAAGGTCATATATGG
TCAGTAATGAAGCAAAAATTCATGGTATGTGACTTAAAGACTTTCTAAGACATTGTACCCATGGGATGTTTCCAA
GCTTCTTGATCTTTAATCTTTTAGCAACCTTCTGATACTGGATTTACCTTCTAGGTGTGGTGCCCTCCTTCTGG
AATTTAGATCTCTGGGGCAAACCCTGTCAGGATGTGCCTCTGTGTAGTTAAACTGCCCCAGACAGCAGCTCTGA
TTTCAGTCACAGTTCTGCTGAGAAGCCTGTCTGCCCTGGCAGGGGTGAGGGGAGGGTTGTTGGTGGCAGATGTA
GTCAGAGGCAGAGGAGACCAATGGCAGACAGGGTGGACCTGCAGGAAGGTAGCCAGAAGGAAAGACCTTGGGTTT
TACCCAAGGTCAAGGTGGCTGTGATAGAAGAGCGAAAGGCAAAAGTAATACTGAATTTGAGAATTCAGAAGTA
AAAGAGAAAGGAGGAGGATCCCTGGACCAGGGACTTTCACAGGAACCAACATGATTTCATGAAAAAAAAAAAAA
AAAAAA

869/2777
FIGURE 769

TCCAGTGACGGAGCCGCCGCCGACAGCCCGAGACGACAGCCCGGCGCGTCCCGGTCCCCACCTCCGACCACC
GCCAGCGCTCCAGGCCCGCGCTCCCCGCTCGCCGCCACCGCGCCCTCCGCTCCGCCCGCAGTGCCAACCATGAC
CGCCGCCAGTATGGGCCCCGTCCGCGTGCCTTTCGTGGTCTCTCTCGCCCTCTGCAGCCGGCCGGCCGTGGGCCA
GAACTGCAGCGGGCCGTGCCGGTGCCCGGACGAGCCGGCGCCGCGCTGCCCGGCGGGCGTGAGCCTCGTGCTGGA
CGGCTGCGGCTGCTGCCGCGTCTGCGCCAAGCAGCTGGGCGAGCTGTGCACCGAGCGCGACCCCTGCGACCCGCA
CAAGGGCCTCTTCTGTGACTTCGGCTCCCCGGCCAACCGCAAGATCGGCGTGTGCACCGCCAAAGATGGTGCTCC
CTGCATCTTCGGTGGTACGGTGTACCGCAGCGGAGAGTCTTCCAGAGCAGCTGCAAGTACCAGTGACGTGCCT
GGACGGGGCGGTGGGCTGCATGCCCTGTGCAGCATGGACGTTTCGTCTGCCCAGCCCTGACTGCCCTTCCCCGAG
GAGGGTCAAGCTGCCCGGGAATGCTGCGAGGAGTGGGTGTGTGACGAGCCCAAGGACCAAACCGTGGTTGGGCC
TGCCCTCGCGGCTTACCGACTGGAAGACACGTTTGGCCCAGACCCAACTATGATTAGAGCCAACTGCCTGGTCCA
GACCACAGAGTGGAGCGCCTGTTCCAAGACCTGTGGGATGGGCATCTCCACCCGGGTTACCAATGACAACGCCTC
CTGCAGGCTAGAGAAGCAGAGCCGCTGTGCATGGTCAGGCCTTGCGAAGCTGACCTGGAAGAGAACATTAAGAA
GGGCAAAAAGTGATCCGTACTCCCAAAATCTCCAAGCCTATCAAGTTTGAGCTTTCTGGCTGCACCAGCATGAA
GACATACCGAGCTAAATTCTGTGGAGTATGTACCGACGGCCGATGCTGCACCCCCCACAGAACCACCACCCTGCC
GGTGGAGTTCAAGTGCCCTGACGGCGAGGTTCATGAAGAAGAACATGATGTTTCATCAAGACCTGTGCCTGCCATTA
CAACTGTCCCGGAGACAATGACATCTTTGAATCGCTGTACTACAGGAAGATGTACGGAGACATGGCATGGAAGCCA
GAGAGTGAGAGACATTAACCTATTAGACTGGAACCTGAACTGATTACATCTCATTTTTCCGTAAAAATGATTTT
AGTAGACAAGTTATTTAAATCTGTTTTTCTAACTGGGGGAAAAGATTCCACCCAATTCAAACATTGTGCCAT
GTCAAACAAATAGTCTATCTTCCCCAGACACTGGTTTGAAGAATGTTAAGACTTGACAGTGGAACTACATTAGTA
CACAGCACCAGAATGTATATTAAGGTGTGGCTTTAGGAGCAGTGGGAGGGTACCAGCAGAAAGGTTAGTATCATC
AGATAGCTCTTATACGAGTAATATGCCTGCTATTTGAAGTGTAATTGAGAAGGAAAATTTTAGCGTGCTCACTGA
CCTGCCTGTAGCCCCAGTGACAGCTAGGATGTGCATTCTCCAGCCATCAAGAGACTGAGTCAAGTTGTTCTTAA
GTCAGAACAGCAGACTCAGCTCTGACATTCTGATTGGAATGACACTGTTCAAGGAATCGGAATCCTGTCGATTAGA
CTGGACAGCTTGTGGCAAGTGAATTTCTGTAAACAAGCCAGATTTTTTAAATTTATATTGTAAATATTGTGTGT
GTGTGTGTGTGTATATATATATATATATGTACAGTTATCTAAGTTAATTTAAAGTTGTTTGTGCCTTTTTATT
TTTGTTTTTAATGCTTTGATATTTCAATGTTAGCCTCAATTTCTGAACACCATAGGTAGAATGTAAAGCTTGCT
GATCGTTCAAAGCATGAAATGGATACTTATATGGAAATCTCTCAGATAGAATGACAGTCCGTCAAACAGATTG
TTTGCAAAGGGGAGGCATCAGTGTCTTTGGCAGGCTGATTTCTAGGTAGGAAATGTGGTAGCTCACGCTCACTTT
TAATGAACAAATGGCCTTTATTAAAACTGAGTGACTCTATATAGCTGATCAGTTTTTTTCACTGGAAGCATTG
TTTCTACTTTGATATGACTGTTTTTCGGACAGTTTATTTGTTGAGAGTGTGACCAAAAGTTACATGTTTGACCT
TTCTAGTTGAAAATAAAGTATATTTTTTCTAAAAAAGGACGACAGCAACGGAATTC

870/2777
FIGURE 770

MTAASMGPVRVAFVVLLALCSRPAVGQNCSGPCRCPD~~E~~PAPRCPAGVSLVLDGCGCCRVCAKQLGELCTERDPCD
PHKGLFCDFGSPANRKIGVCTAKDGAPCIFGGTVYRSGESFQSSCKYQCTCLDGAVGCMPLCSMDVRLPSPDCPF
PRRVKLPGKCCEEWVCDEPKDQTVVGPALAA~~Y~~RLEDTFGPDPTMIRANCLVQTTEWSACSKTCGMGISTRVTNDN
ASCRLEKQSRLCMV~~R~~PC~~E~~ADLEENIKKGKKCIRTPKISKPIKFELSGCTSMKTYRAKFCGVCTDGR~~C~~CTPHRTT
LPVEFKCPDGEVMKKNNMMFIKTCACHYNCPGDNDIFESLYYRKMYGDMA

871/2777
FIGURE 771

ACATTTGCTTCTGACACAACCTGTGTTCACTAGCAACCTCAAACAGACACCATGGTGCACCTGACTCCTGAGGAGA
AGTCTGCCGTTACTGCCCTGTGGGGCAAGGTGAACGTGGATGAAGTTGGTGGTGAGGCCCTGGGCAGGCTGCTGG
TGGTCTACCCTTGGACCCAGAGGTTCTTTGAGTCCTTTGGGGATCTGTCCACTCCTGATGCTGTTATGGGCAACC
CTAAGGTGAAGGCTCATGGCAAGAAAGTGCTCGGTGCCTTTAGTGATGGCCTGGCTCACCTGGACAACCTCAAGG
GCACCTTTGCCACACTGAGTGAGCTGCACTGTGACAAGCTGCACGTGGATCCTGAGAACTTCAGGCTCCTGGGCA
ACGTGCTGGTCTGTGTGCTGGCCCATCACTTTGGCAAAGAATTCACCCACCAGTGCAGGCTGCCTATCAGAAAG
TGGTGGCTGGTGTGGCTAATGCCCTGGCCACAAGTATCACTAAGCTCGCTTTCTTGCTGTCCAATTTCTATTAA
AGGTTCTTTGTTCCCTAAGTCCAACCTAAACTGGGGGATATTATGAAGGGCCTTGAGCATCTGGATTCTGCC
TAATAAAAAACATTTATTTTCATTGC

872/2777
FIGURE 772

MVHLTPEEKSAVTALWGKVNVDDEVGGEALGRLLVVYPWTQRFFESFGDLSTPDVAVMGNPKVKAHGKKVLGAFSDG
LAHLDNLKGTFFATLSELHCDKLHVDPENFRLLGNVLCVLAHHFGKEFTPPVQAAYQKVVAGVANALAHKYH

873/2777
FIGURE 773

ATGGCATCCGTTGCAGTTGATCCACAACCGAGTGTGGTGACTCGGGTGGTCAACCTGCCCTTGGTGAGCTCCACG
TATGACCTCATGTCTCAGCCTATCTCAGTACAAAGGACCAGTATCCCTACCTGAAGTCTGTGTGTGAGATGGCA
GAGAACGGTGTGAAGACCATCACCTCCGTGGCCATGACCAGTGCTCTGCCCATCATCCAGAAGCTAGAGCCGCAA
ATTGCAGTTGCCAATACCTATGCCTGTAAGGGGCTAGACAAGGATTGAGGAGAGACTGCCTATTCTGAATCAGCCA
TCAACTCAGATTGTTGCCAATGCCAAAGGCGCTGTGACTGGGGCAAAAGATGCTGTGACGACTACTGTGACTGGG
GCCAAGGATTCTGTGGCCAGCACGATCACAGGGGTGATGGACAAGACCAAAGGGGCAGTGACTGGCAGTGTGGAG
AAGACCAAGTCTGTGGTCAGTGGCAGCATTAAACACAGTCTTGGGGAGTCGGATGATGCAGCTCGTGAGCAGTGGC
GTAGAAAATGCACTCACCAAATCAGAGCTGTTGGTAGAACAGTACCTCCCTCTCACTGAGGAAGAAGTGAAGAAA
GAAGCAAAAAAAGTTGAAGGATTTGATCTGGTTCAGAAGCCAAGTTATTATGTTAGACTGGGATCCCTGTCTACC
AAGCTTCACTCCCGTGCCTACCAGCAGGCTCTCAGCAGGGTTAAAGAAGCTAAGCAAAAAAGCCAACAGACCATT
TCTCAGCTCCATTCTACTGTTACCTGATTGAATTTGCCAGGAAGAATGTGTATAGTGCCAATCAGAAAATTCAG
GATGCTCAGGATAAGCTCTACCTCTCATGGGTAGAGTGGAAAAGGAGCATTGGATATGATGATACTGATGAGTCC
CACTGTGCTGAGCAATTTGAGTCACGTACTCTTGCAATTGCCCACAACCTGACTCAGCAGCTCCAGACCACGTGC
CACACCTCCTGTCCAACATCCAAGGTGTACCACAGAACATCCAAGATCAAGCCAAGCACATGGGGGTGATGGCA
GGCGACATCTACTCAGTGTTCGCAATGCTGCCTCCTTTAAAGAAGTGTCTGACAGCCTCCTCACTTCTAGCAAG
GGGCAGCTGCAGAAAATGAAGGAATCTTTAGATGACGTGATGGATTATCTTGTTAACAACACGCCCCTCAACTGG
CTGGTAGGTCCCTTTTATCCTCAGCTGACTGAGTCTCAGAATGCTCAGGACCAAGGTGCAGAGATGGACAAGAGC
AGCCAGGAGACCCAGCGATCTGAGCATAAAACTCATTAA

874/2777
FIGURE 774

MASVAVDPPQPSVVTRVVNLPLVSSSTYDLMSAYLSTKDQYPYLKSVCEMAENGVKTTITSVAMTSALPIIQKLEPQ
IAVANTYACKGLDRIEERLPILNQPSTQIVANAKGAVTGAKDAVTTTGTGAKDSVASTITGVMDKTKGAVTGSVE
KTKSVVSGSINTVLGSRMMQLVSSGVENALTKSELLVEQYLPLTEEELEKEAKKVEGFDLVQKPSYYVRLGSLST
KLHSRAYQQALSRVKEAKQKSQQTISQLHSTVHLIEFARKNVYSANQKIQDAQDKLYLSWVEWKRSIGYDDTDES
HCAEQFESRTLAIARNLTQQLQTTCHTLLSNIQGV PQNIQDQAKHMGVMAGDIYSVFRNAASFKEVSDSLTSSK
GQLQMKESLDDVMDYLVNNTPLNWLVGPFYPQLTESQNAQDQGAEMDKSSQETQRSEHKTH

875/2777
FIGURE 775

CATGGCCAGCACATCCACCACCATCAGGAGCCACAGCAGCAGCCGCCGGGGTTTCAGTGCCAACTCAGCCAGGCT
CCCTGGGGTCAGCCGCTCTGGCTTCAGCAGCATCTCCGTGTCCCGCTCCAGGGGCAGTGGTGGCCTGGGTGGTG
ATGTGGAGGAGCTGGCTTTGGCAGCCGCAGCTTATATGGCCTGGGGGGATCCAAGAGGATCTCCATTGGAGGGG
CAGCTGTGCCATCAGTGGCGGCTATGGCAGCAGAGCCAGAGCGAGCTATGGCTTTGGTGGCGCCGGGAGTGGATT
TGGTTTCGGTGGTGGAGCCGGCATTGGCTTTGATCTGGGTGGTGGAGCCGGCCTTGCTGGTGGCTTTGGGGGCC
TGGCTTCCCTGTGTGCCCCCTGGAGGCATCCAAGAGGTCACTGTCAACCAGAGTCTCCTGACTCCCCTCAACCT
GCAAATTGACCCCGCCATCCAGCGGGTGCGGGCCGAGGAGCGTGAGCAGATCAAGACCCTCAACAACAAGTTTGC
CTCCTTCATCGACAAGGTGCGGTTCTGGAGCAGCAGAACAAGGTTCTGGAACAAAGTGGACCCTGCTGCAGGA
GCAGGGCACCAAGACTGTGAGGCAGAACCTGGAGCCGTTGTTGAGCAGTACATCAACAACCTCAGGAGGCAGCT
GGACAGCATTGTGCGGGAACGGGGCCGCTGGACTCAGAGCTCAGAGGCATGCAGGACCTGGTGGAGGACTTCAA
GAACAAATATGAGGATGAAATCAACAAGCGCACAGCAGCAGAGAATGAATTTGTGACTCTGAAGAAGGATGTGA
TGCTGCCTACATGAACAAGGTTGAACTGCAAGCCAAGGCAGACACTCTCACAGACGAGATCAACTTCCTGAGAGC
CTTGTATGATGCAGAGCTGTCCAGATGCAGACCCACATCTCAGACACATCTGTGGTGCTGTCCATGGACAACAA
CCGCAACCTGGACCTGGACAGCATCATCGCTGAGGTCAAGGCCAATATGAGGAGATTGCTCAGAGAAGCCGGGC
TGAGGCTGAGTCTTGGTACCAGACCAAGTACGAGGAGCTGCAGGTACAGCAGGCAGACATGGGGACGACCTGCG
CAACACCAAGCAGGAGATTGCTGAGATCAACCGCATGATCCAGAGGCTGAGATCTGAGATCGACCACGTCAAGAA
GCAGTGCGCCAACCTGCAGGCCGCCATTGCTGATGCTGAGCAGCGTGGGGAGATGGCCCTCAAGGATGCCAAGAA
CAAGCTGGAAGGGCTGGAGGATGCCCTGCAGAAGGCCAAGCAGGACCTGGCCCGGCTGCTGAAGGAGTACCAGGA
GCTGATGAATGTCAAGCTGGCCCTGGACGTGGAGATCGCCACCTACCGCAAGCTGCTGGAGGGTGAGGAGTGCAG
GCTGAATGGCGAAGGCGTTGGACAAGTCAACATCTCTGTGGTGCAGTCCACCGTCTCCAGTGGCTATGGCGGTGC
CAGTGGTGTGCGCAGTGGCTTAGGCCTGGGTGGAGGAAGCAGCTACTCCTATGGCAGTGGTCTTGGCGTTGGAGG
TGGCTTCAGTTCCAGCAGTGGCAGAGCCATTGGGGGTGGCCTCAGCTCTGTTGGAGGCGGCAGTTCACCATCAA
GTACACCACCACCTCCTCCTCCAGCAGGAAGAGCTATAAGCACTAAGTGCCTCTGCTAGCTCTCGGTCCCACAGT
CCTCAGGCCCCCTCTCTGGCTGCAGAGCCCTCTCCTCAGGTTGCCTGTCTCTCTCTCTCTATACCATCTGAGCACCCA
TTGCTCACCATCAGATCAACCTCTGATTTTACATCATGATGTAATCACCAGTGGAGCTTCACTGTTACTAAATTA
TTAATTTCTTGCTCCAGTGTCTATCTCTGAGGCTGAGCATTATAAGAAAATGACCTCTGCTCCTTTTTCATTGC
AGAAAATTGCCAGGGGCTTATTTTCAACAACCTTCACTTACTTTCCACTGGCTCTCAAACCTCTCTAACTTATAA
GTGTTGTGAACCCCCACCCAGGCAGTATCCATGAAAGCACAAAGTGACTAGTCCTATGATGTACAAAGCCTGTATC
TCTGTGATGATTTCTGTGCTCTTCACTCTTTGCAATTGCTAAATAAA

876/2777
FIGURE 776

MASTSTTIRSHSSRRGFSANSARLPGVSRSGFSSISVSRSRGSGGLGGACGGAGFGSRSLYGLGGSKRISIGGG
SCAISGGYGSRRASYGFGGAGSGFGFGGGAGIGFDLGGGAGLAGGFGGPGFPVCPGGIQEVTVNQSLLTPLNL
QIDPAIQRVRAEEREQIKTLNNKFASFIDKVRFLQQNKVLETKWILLQEQGKTQVRQNLPLFEQYINNLRRL
DSIVGERGRLDSELRGMQDLVEDFKNKYEDEINKRTAAENEFVTLKKDVAAYMNKVELQAKADTLTDEINFLRA
LYDAELSQMQTHISDTSVVLSDNNRNLDLDSIIAEVKAQYEEIAQRSRAEAEESWYQTKYEELQVTAGRHGDDL
NTKQEI AEINRMIQRLRSEIDHVKKQCANLQAAIADAEQRGEMALKDAKNKLEGLEDALQAKQDLARLLKEYQE
LMNVKLALDVEIATYRKLEGEECRLNGEGVGQVNISVVQSTVSSGYGGASGVGSLGLGGSSSYSGSLGVGG
GFSSSSGRAIGGGLSSVGGGSSTIKYTTTSSSSSRKSYKH

877/2777
FIGURE 777

CATGGGCCAGCACATCCACCACCATCAGGAGCCACAGCAGCAGCCGCCGGGGTTTCAGTGCCAGCTCAGCCAGGCT
CCCTGGGGGTCAGCCGCTCTGGCTTCAGCAGCATCTCCGTGTCCCGCTCCAGGGGCAGTGGTGGCCTGGGTGGCGC
ATGTGGAGGAGCTGGCTTTGGCAGCCGCAGTCTGTATGGCCTGGGGGGCTCCAAGAGGATCTCCATTGGAGGGG
CAGCTGTGCCATCAGTGGCGGCTATGGCAGCAGAGCCGGAGGCAGCTATGGCTTTGGTGGCGCCGGGAGTGGATT
TGGTTTCGGTGGTGGAGCCGGCATTGGCTTTGGTCTGGGTGGTGGAGCCGGCCTTGCTGGTGGCTTTGGGGGCC
TGGCTTCCCTGTGTGCCCCCTGGAGGCATCCAAGAGGTCACTGTCAACCAGAGTCTCCTGACTCCCCTCAACCT
GCAAATTGACCCCGCCATCCAGCGGGTGC GGCCGAGGAGCGTGAGCAGATCAAGACCCTCAACAACAAGTTTGC
CTCCTTCATCGACAAGGTGCGGTTCTTAGAGCAGCAGAACAAGGTTCTGGACACCAAGTGGACCCTGCTGCAGGA
GCAGGGCACCAAGACTGTGAGGCAGAACCTGGAGCCGTTGTTGAGCAGTACATCAACAACCTCAGGAGGCAGCT
GGACAGCATCGTGGGGGAACGGGGTCTGCTGGACTCGGAGCTGAGAAACATGCAGGACCTGGTGGAGGACCTCAA
GAACAAATATGAGGATGAAATCAACAAGCGCACAGCAGCAGAGAATGAATTTGTGACTCTGAAGAAGGATGTGGA
TGCTGCCTACATGAACAAGGTTGAACTGCAAGCCAAGGCAGACACTCTTACAGATGAGATCAACTTCTGAGAGC
CTTGTATGATGCAGAGCTGTCCCAGATGCAGACCCACATCTCAGACACATCCGTGGTGTCTATCCATGGACAACAA
CCGCAACCTGGACCTGGACAGCATCATCGCTGAGGTCAAGGCCAATATGAGGAGATTGCTCAGAGGAGCAGGGC
TGAGGCTGAGTCTGGTACCAGACAAAGTACGAGGAGCTGCAGGTACAGCAGGCAGACATGGGGACGACCTGCG
CAACACCAAGCAGGAGATTGCTGAGATCAACCGCATGATCCAGAGGCTGAGATCTGAGATCGACCACGTCAAGAA
GCAGTGTGCCAACCTACAGGCTGCCATTGCTGATGCTGAGCAGCGTGGGGAGATGGCCCTCAAGGATGCTAAGAA
CAAGCTGGAAGGGCTGGAGGATGCCCTGCAGAAGGCCAAGCAGGACCTGGCCCGGCTGCTGAAGGAGTACCAGGA
GCTGATGAACGTCAAGCTGGCCCTGGACGTGGAGATCGCCACCTACCGCAAGCTGCTGGAGGGCGAGGAGTGCAG
GCTGAATGGCGAAGGCGTTGGACAAGTCAACATCTCTGTAGTGCAGTCCACCGTCTCCAGTGGCTATGGCGGTGC
CAGCGGTGTGCGCAGTGGCTTAGGCCTGGGTGGAGGAAGCAGCTACTCCTATGGCAGTGGTCTTGGCGTTGGAGG
CGGCTTTAGTTCCAGCAGCGGCAGAGCCACTGGGGGTGGCCTCAGCTCTGTTGGAGGGCGGAGTTCCACCATCAA
GTACACCACCACCTCCTCCTCCAGCAGGAAGAGCTACAAGCAGTGAAGTCGTGCCGCCAGCTCTCAGTCCCACAG
CTCTCAGGCCCCCTCTCTGGCAGCAGAGCCCTCTCCTCAGGTTGCTTGTCTCCCTGGCCCTCCAGTCTCCCCTGC
CCTCCCGGGTAGAGCTGGGATGCCCTCACTTTTCTCTCATCAATACCTGTTCCACTGAGCTCCTGTTGCTTACC
ATCAAGTCAACAGTTATCAGCACTCAGACATGCGAATGTCTTTTTAGTTCCCGTATTATTACAGGTATCTGAGT
CTGCCATAATTCTGAGAAGAAAAATGACCTATATCCCCATAAGAAGTGAAGTCAAGTCTAGGTCCAGCTGCAGAT
GAGGAGTCCTCTCTTTAATTGCTAACCATCTGCCATTATAGCTACACTCAGGAGTTCTCATCTGACAAGTCAG
TTGTCTGATCTTCTTGTGAGTGTCCCTGAATGGCAAGTGATGTACCTTCTGATGCAGTCTGCATTCTGCACT
GCTTCTCTGCTCTCTTTGCCTTCTTTGTTCTGTTGAATAAA

878/2777
FIGURE 778

MASTSTTIRSHSSSRRGFSASSARLPGVSRSGFSSISVSRSRSGSGLGGACGGAGFGSRSLYGLGGSKRISIGGG
SCAISGGYGSRAGGSYGFGGAGSGFGFGGGAGIGFGLGGAGLAGGFGGPGFPVCPGGIQEVTVNQSLLTPLNL
QIDPAIQRVRAEEREQIKTLNNKFASFIDKVRFLQQQNKVLDTKWTLLQEQGKTQVRQNLPLFEQYINNLRRL
DSIVGERGRLDSELNMQDLVEDLKNKYEDEINKRTAAENEFVTLKKDVDAAYMNKVELQAKADTLTDEINFLRA
LYDAELSQMQTHISDTSVVLSDNDRNLDLDSIIAEVKAQYEEIAQRSRAEAESWYQTKYEELQVTAGRHGDDL
NTKQEI AEINRMIQRLRSEIDHVKKQCANLQAAIADAEQRGEMALKDAKNKLEGLEDALQKAKQDLARLLKEYQE
LMNVKLALDVEIATYRKLLGEECRLNGEGVGQVNISVVQSTVSSGYGGASGVGSLGLGGGSSYSYGSGLGVGG
GFSSSSGRATGGGLSSVGGGSSTIKYTTTSSSSSRKSYKH

879/2777
FIGURE 779

GGCACGAGGAGCGAAGTCCCAGTGC GCGCCGCGGCAGCCCCGGGCACCCCTCCCCTTCCGGGCGTGAGTCGCTGTGA
AAAGAGCTGAAGCGAGCGGACTCGCACCGGCAGCGAGGCGCCGCTCCCGCCGCCTCAGCCCGGCCTTCCTCGGCT
CCGGCGCTCCGGTTCGCGGGGCCCCGGGTTCTTCGGCACACCCCGCTCCAGCCGCCCCCAGAGCCTGTCCCCAGCCC
TTCGGAAGCCCCGCGGCCAGCCCCGGGCCCTCGGCAGGGAGGATGACGGAGCTGCAGTCGGCACTGCTACTGCGAA
GACAGCTGGCAGAACTCAACAAAAATCCAGTGGAAGGCTTTTTCTGCAGGTTTAAATAGATGACAATGATCTCTACC
GATGGGAAGTCCTTATTATTGGCCCTCCAGATACACTTTATGAAGGTGGTGTTTTTAAGGCTCATCTTACTTTCC
CAAAAGATTATCCCCTCCGACCTCCTAAAATGAAATTCATTACAGAAATCTGGCACCCAAATGTTGATAAAAATG
GTGATGTGTGCATTTCTATTCTTCATGAGCCTGGGGAAGATAAGTATGGTTATGAAAAGCCAGAGGAACGCTGGC
TCCCTATCCACACTGTGGAACCATCATGATTAGTGTCAATTTCTATGCTGGCAGACCCTAATGGAGACTCACCTG
CTAATGTTGATGCTGCGAAAGAATGGAGGGAAGATAGAAATGGAGAATTTAAAAGAAAAGTTGCCCCGCTGTGTAA
GAAAAGCCAAGAGACTGCTTTTGAGTGA CATTATTTAGCAGCTAGTAACTTCACTTATTTCAGGGTCTCCAAT
TGAGAAACATGGCACTGTTTTTCCTGCACTCTACCCACCTATTGCTGGACTTCTGTTGTACAAGTTGGCAAACAC
TGGCTGGAAC TGGGCTGCAATAAAACATGCCAGTTATCAATGCTGACAAGAGCCTAACAAGTGCCAACTTACAGA
TGATTACGCATTTTGAATTCTAATGAACTGTTTTAACCTTCAGGAAGAATTGTAAAGACCTGTACATAGCACAAAC
ATGATCCGGATAATATATATACTGTTTCATGTACATCCACAAATACACCTTGTACCAAATAATGCTTCTTGTAGT
AGAATAAGAATCGTGTAATTCTAAGAGATTTTAGCAGGTTTTCTTTCCTATTTCATTGTTTCTTATCAGTTTAAA
AGGATTCCTTTAAGCATGTCAGATGAAAAGCAATTAGGATTAAAAGTTTCATTTAATTTCCCTTAAACCCTTGA
GGCTTCATTAAACTCTTTTCACTTACTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

880/2777
FIGURE 780

MTELQSALLRRQLAELNKNPVEGFSAGLIDDNDLYRWEVLIIGPPDTLYEGGVFKAHLTFPKDYPLRPPKMKFI
TEIWHPNVDKNGDVCISILHEPGEDKYGYEKPEERWLPIHTVETIMISVISMLADPNGDSPANVDAAKEWREDRN
GEFKRKVARCVRKSQETAFE

881/2777
FIGURE 781

AGGCTGTCTGCAGAGATTTGAAAAATGGCAACAAATGAAAGTGTCAGCATCTTTAGTTCAGCATCCTTGGCTGTG
GAATATGTAGATTCACCTTTTACCTGAGAATCCTCTGCAAGAACCATTTAAAAATGCTTGGAACATATATGTTGAAT
AATTATACAAAGTTCCAGATTGCAACATGGGGATCCCTTATAGTTCATGAAGCCCTTTATTTCTTATTCTGTTTA
CCTGGATTTTTTATTTCAATTTATACCTTATATGAAAAAATACAAAATTCAAAGGATAAGCCAGAGACATGGGAA
AACCAATGGAAGTGTTTCAAAGTTCTTCTCTTTAATCACTTCTGTATCCAGCTGCCTTTGATTTGTGGAACCTAT
TATTTTACAGAGTATTTCAATATTCCTTATGATTGGGAAAGAATGCCAAGATGGTATTTTCTTTTGGCAAGATGC
TTTGGTTGTGCAGTCATTGAAGATACTTGGCACTATTTTCTGCATAGACTCTTACACCACAAAAGAATATACAAG
TATATTCATAAAGTTCATCATGAGTTTCAGGCTCCATTTGGAATGGAAGCTGAATATGCACATCCTTTGGAGACT
CTAATTCCTGGAACCTGGATTTTTTCATTGGAATCGTGCTTTTGTGTGATCATGTAATTCCTTTTGGGCATGGGTG
ACCATTTCGTTTATTAGAAACTATTGATGTCCATAGTGGTTATGATATTCCTCTCAACCCTTTAAATCTGATCCCT
TTCTATGCTGGTTCTCGGCATCATGATTTCCACCACATGAACCTTCATTGGAACTATGCTTCAACATTTACATGG
TGGGATCGAATTTTTTGGAACTAGCTCTCAGTATAATGCCTATAATGAAAAGAGGAAGAAGTTTGAGAAAAAGACT
GAATAAATATCTCACGTAAACCTTCCTGAAAGATAAACGTTTTCTGAATTCAGAACTAGTAGCTAACATTGCT
TCTGGAGAGCAGAAATAAGCATGTCTTCTGGCTACTAAGTGATAAAAAGAACATTAACAACCTTTAATTACCTTC
CTAGTGGGAACTTTTTCTACTTTACCTACAAGTTCTATATATGTAGAAATGAATAAATATATATTTAAGTACAGT
TTTCATGAGGAAGTTTTTAAAGACCATGTTCCCTAAGCTTCCAAGAAGGTTTTTGGATACTAGAAAGTATTAATCTAT
GGCTTTTTCTCCAGTAAACCATAGGCCTGAAGTTCACATTGGGTCTTTAAATCTTTTAGATATATACTGGTCAT
TTCAGAAAATTCTTCATAGTGGTATTGGCCTTATATTTAACTTTTTTTTTTTTTTTTGGAGACAAAGCCACA
CTCTGTCTCCTTGGCTGGAGTGTGGTGGCACAGTCTCAGCTCACTGCAACCTCTGCCTCCAGTTCAAGCAATTC
TTCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCACCCGCCACCACGCCAGCTAATTTTTGTATTTTTTGT
GAGATGGGGTTTACGATGTTGGCCAGGCTGGTCTCAAACCTTCTGACC1CAAGTGATCTGCCCACCTTGGCCTCC
CAAAGTGCTGGGATTACAGGTGTAAGCCACTGCGCCCGGCCTTTTTAACTTTAAACATGTTTTTAGAATTCACCTA
AAGATCAAAATATCATGGATTGAACCTCATCAATTGATAGCAGTGAGTGACTGAAGCTTCCAAATCAAGAAAAGC
CGGCACCAAGAACCTCCATTCTAATCTAGAGCTGACCAGTTTGAGCTGATTCTCTCTTTGAAGAGTCCTTCTTGA
TTGAGTGCAGTACTGGCATTCTGAATGGATGTAAGTGGAGTATTTTAGTCTAAAGGCTTTTCAAATTAATTGA
ATTTTTTTAAAAATTGAGGAGCTTTATTTCTATTTACCCTTCATTTTTTGTGTGAAAAAAAAAAAAAAAAA

882/2777
FIGURE 782

MATNESVSIFSSASLAVEYVDSLIPENPLQEPFKNAWNYMLNNYTKFQIATWGSLIVHEALYFLFCLPGFLFQFI
PVMKKYKIQKDKPETWENQWKCFKVLLFNHFCIQLPLICGTYFTEYFNIPYDWERMPRWYFLLARCFGCAVIED
TWHYFLHRLHHKRIYKYIHKVHHEFQAPFGMEA EYAHPLETLILGTGFFIGIVLLCDHVILLWAWVTIRLLETI
DVHSGYDIPLNPLNLIPFYAGSRHHDFFHMFIGNYASTFTWWDRIFGTDSQYNAYNEKRKKFEKKTE

883/2777
FIGURE 783

CTCTGAGGAGAAGCAGCAGCAAACATTTGCTAGTCAGACAAGTGACAGGGAATGGATTCCAAACAGCAGTGTGTA
AAGCTAAATGATGGCCACTTCATGCCTGTATTGGGATTTGGCACCTATGCACCTCCAGAGGTTCCGAGAAGTAAA
GCTTTGGAGGTCACAAAATTAGCAATAGAAGCTGGGTTCGCCATATAGATTCTGCTCATTATACAATAATGAG
GAGCAGGTTGGACTGGCCATCCGAAGCAAGATTGCAGATGGCAGTGTGAAGAGAGAAGACATATTCTACACTTCA
AAGCTTTGGTCCACTTTTCATCGACCAGAGTTGGTCCGACCAGCCTTGGAAAACTCACTGAAAAAAGCTCAATTG
GACTATGTTGACCTCTATCTTATTCACTCTCCAATGTCTCTAAAGCCAGGTGAGGAACTTTCACCAACAGATGAA
AATGGAAAAGTAATATTTGACATAGTGGATCTCTGTACCACCTGGGAGGCCATGGAGAAGTGTAAGGATGAGGA
TTGGCCAAGTCCATTGGGGTGTCAAACCTCAACCGCAGGCAGCTGGAGATGATCCTCAACAAGCCAGGACTCAAG
TACAAGCCTGTCTGCAACCAGGTAGAATGTCATCCGTATTTCAACCGGAGTAAATTGCTAGATTTCTGCAAGTCG
AAAGATATTGTTCTGGTTGCCCTATAGTGCTCTGGGATCTCAACGAGACAAACGATGGGTGGACCCGAACCTCCCG
GTGCTCTTGGAGGACCCAGTCCTTTGTGCCTTGGCAAAAAAGCACAAAGCGAACCCAGCCCTGATTGCCCTGCGC
TACCAGCTGCAGCGTGGGGTTGTGGTCCTGGCCAAGAGCTACAATGAGCAGCGCATCAGACAGAACGTGCAGGTT
TTTGAGTTCCAGTTGACTGCAGAGGACATGAAAGCCATAGATGGCCTAGACAGAAATCTCCACTATTTTAACAGT
GATAGTTTTGCTAGCCACCCTAATTATCCATATTCAGATGAATATTAACATGGAGAGCTTTGCCTGATGTCTACC
AGAAGCCCTGTGTGTGGATGGTGACGCAGAGGACGTCTCTATGCCGGTGACTGGACATATCACCTCTACTTAAAT
CCGTCTGTTTAGCGACTTCAGTCAACTACAGCTGAGTCCATAGGCCAGAAAGACAATAAATTTTTATCATTTTG
AAAT

884/2777
FIGURE 784

MDSKQQCVKLNDGHFMPVLGFGTYAPPEVPRSKALEVTKLAIEAGFRHIDSAHLYNNEEQVGLAIRSKIADGSVK
REDIFYTSKLWSTFHRPELVRLPALENSLKKALDYVDLYLIHSPMSLKPGEELSPTDENGKVIFDIVDLCTTWEA
MEKCKDAGLAKSIGVSNFNRRQLEMILNKPGLKYKPCNQVECHPYFNRSKLLDFCKSKDIVLVAYSALGSQRDK
RWVDPNSPVLLDPVLCALAKKHKRTPALIALRYQLQRGVVVLAKSYNEQRIRQNVQVFEFQLTAEDMKAIDGLD
RNLHYFNSDSFASHPNYPYSDEY

885/2777
FIGURE 785A

GATCTTAAGAAAGAGAGCAAGGAGGAAGAGCCCGGTGGGGAGCAGGTCTTCTCCCCACCCCCCTACCCCCAAC
TCCCACTGGAGCCGCATTGAGACTGTAGGCACCACCGGGCGCCGAATGGCTGTTTTCTAACTGGGATCCTCGGTG
ACGTATGGCTGCCTGCCCTTGGCAGCTGTCTTTATGGACCAGTAGGCAGAGCGAAATTGACGCTGACAAGACTT
TTGCATCTTGAAGGGACTGTAATCTACTGTAGTGAAGAACAGAGCCTCTCAATCAGACGGGTGTAAATAAGAGA
CGGAGGGGAGTCCAAAAGAAAAGGAAGAGGAGGAAAAACAAGTGTGTGTTGGGGGGAACAGGGGGAAAAGCATT
TTGGTGGATGGTATGAAGCCAGCCATGGAAGTGCAGCCGAGGAAAAATACTGAACAAAGCCAAGAGAGAAAAGGT
TCAGGCTGCTTTGAATGCTGCATCAAGTGTCTGGGAGGAGTCCCTACGCCCTCCCTGGTGGCCACCATCCTCTGC
TTCTCCGGGGTGGCCTTATTCTGCGGCTGTGGGCATGTGGCTCTCGCAGGCACCGTGGCGATTCTTGAGCAACAC
TTCTCCACCAACGCCAGTGACCATGCCTTGCTGAGCGAGGTGATACAACCTGATGCAGTATGTCATCTATGGAATT
GCGTCTTTTTTCTTCTTGTATGGGATCATTCTGTTGGCAGAAGGCTTTTACACCACAAGTGCAGTGAAAGAAGT
CACGGTGAGTTTAAAACAACCGCTTGTGGCCGATGCATCAGTGGAATGTTCTGTTTTCTCACCTATGTGCTTGA
GTGGCCTGGCTGGGTGTGTTTGGTTTCTCAGCGGTGCCCCGTGTTTATGTTCTACAACATATGGTCAACTTGTGAA
GTCATCAAGTCACCGCAGACCAACGGGACCACGGGTGTGGAGCAGATCTGTGTGGATATCCGACAATACGGTATC
ATTCTTGGAAATGCTTTCCCGGAAAAATATGTGGCTCTGCCCTGGAGAACATCTGCAACACAACGAGTTCTAC
ATGTCTTATCACCTGTTTATTGTGGCCTGTGCAGGAGCTGGTGCCACCGTCATTGCCCTGCTGATCTACATGATG
GCTACTACATATAACTATGCGGTTTTGAAGTTTAAAGAGTCGGGAAGATTGCTGCACTAAATTCTAAATTGCATAA
GGAGTTTTAGAGAGCTATGCTCTGTAGCATGAAATATCACTGACACTCCAGACTAAAGCAGAGTCTAGGTTTTCTG
CAATTTTGTACAGTAATTTGTAAATAGCTTTAGTAACTCACCTTGCATGGTAGATTAAATAAGATGACTTACTG
TACATGAATTACACAATAATGAGATCTGGTGGCTATTTCCACATTTTGAAGGATTGAGTTATTTACTGACAGT
GGTGAGCATCCTTTTTAAATAATGTTCTCATACTTAAACATTAGAGAGCAGTATCTTTAAATGAATTATTAACA
CTTTGGAATACTTACATTTTCTGTTATTTTGAATTGCCTGATAACCAAGTTTCAATGATGAAAATGAAAACAAGTG
CTGAAGATGAAATGGAAGAGAACCGTTTTAATCTGGATTTTGTGTTTGTACACCTGGAAAATACTTTGCAAAAT
GTTCTAAATTGAAAACAATTTTTTATGATCACATGGTTCCTACTACCAAATGACCTCAAATAAGCCAGATGAAAA
TTTGAAGAAAAGGTACCCAGTTCTCTGGAAAAAAGGATTTATATGTGGGT
AGTTTTTTTTTGGTACAACACAATCATTCTGTTAGAGCCCAAAAATTGGTAACCTTAAATTGTGTGTTTTGGT
AAGTAATAACTAAGTGTTCCTCATAGCTAGTTCTCAAGCTGCATGTAAGATTTTAAACGGGAAGAGAAAATAGGC
CTGGACCTGAAGGTCTCAAATATGTTGAGAAGAAAGTATGAACATAAGGAACCTGAGATGTAGATTTATTTTGC
AGGAAATACGAGGAAAATAGGAAAGAGTGTGTCGCGCATCAAGTGTAAGAAATGATACTGAGGATTTTACATT
TTATGAAATGAAATAATGGCATTACAAAATGAAAAATGTAGTTTCACTAAGTTTTGTAAACAGAGACTGCA
TGCTTTGCTTATAGTTCTTAATTTTGGTTTTGACATTCAATTAATTTTCCATGTTAAATATGTAGTTTAATTA
TTTACTCAAAATAAACATTGTTTATGCTTTTAGGCCTTTGGGGGAATTGATTTTTATCCACAGGTAGAAAATGGT
CTTTGCACACACTACACTTATTTCAAATATACAATGTGCTCCCGAAGTTTTCGATTAGTCTTTAAAATTACTCTC
AAAATGGTATTAAAAAAGCACCCTCTCGTATTTTCAATTTTGTCTTTTCTTAACAATACCTTTGGC
CATTTTTTCCAGTTCACTATGTTTGTATACTAACTTTTCTTCAGCCTTTAATGCGAAGCCAAGTATGAGCA
TGCTTTTCAAGATCTGACAGCTCTGCTAGTAGAGCGAGTATTTATTAATACAGAATTAACCTTCGCCCCCTTAAAG
TCAAGTCTGTCTAATCTAACTAGCGCTCGCTTTGCCTTCTCACAATGCTCACTAGCCATCATGCTCACCTTCT
CTTCCAGATCCACTTCTCATGATACTGTCTTCTAACTGGGCTTACTTAAAGGATGCGAGCAAAATGCAGGCTTA
CCAGGATATCAAAGCAAAGGAAGAACAGGAAGTCAAGATATCCAGTCTCGGTCAAAGAACAAGTCAATCTTA
CACATAAATGTTTGGCAGAGTGTTCGGCCGACGTATTTACAGCTCTGACAAATCATCAGACAGCTGCTCTGCAG
TACAGATGTGTATCCCAACAACTAATGTAGATGTACAAACACTTCACTGTCTGTCTCAAGCTGCTGGGATGTAT
CTCTAGGAAAACCTTCCAGTGGGTAAATCTTTTCTTTAGAACAAATATTGGAGGTTTCATGTTAGCCATTTTAA
AAGGCAACACTTTGACAAAATGATCGTTCATACTTTGGGAATTTGTGGCATGTTACATTTATTGCTAGGGCAAT
TCTACCAAGACACTCAATGGAATATGTCACACTCCTTAATAGGGACCTGTGACTCCTTAATAAGGACCTGTGACA
TGCCCAGCATCAAGGGATAAGACCGTAAATTCACATATATGCCATCTGTCTCAAGTGTTATCTACATAGGAAAT
AAAATGGAATTGATGTAAAGTTCATTTCTGACAGCTGACATTTATTAACCTTTGGATCAAAGATAATGTGATTC
TTATGATTGATTTCTCAAAGTCTTTCCCTCCCAAGTCCAGGACCCATTAATTTCTGAGCCAATCAGAAATA
TATTTTTCAATAATGCTAAATAGCTACAATCTGCTGACCCTACTATTAAGAATCTGGATGCTGGACTCACT
GACAAGCTTTCCAGAAGCAATTTTATAACAGATTTCAATTTTAAACAAATACTGATCCAATTTTCAATTTCTTGA

886/2777
FIGURE 785B

GAAATGTCAGCTTTGCCTTAAATGAGTATTTGCTTTAAATTTCTAAGAATTTATATCATAACTAGAGACCCAAATA
TCTTTCACAGAATTTTGTTCATAAATGTTTTCTTAATTATTAAGAAGTGTACCTTATTAAAATGACCACCAT
TCTAAACCATTTTTTCAGTGGTCTGGATACGAAGTTTACAGTTTCATACCAACTATCTAAAACCTAATTGCAAATT
GACCACAGACCTCTAACCTCCTACTTTTATAGACTTGAATACTTAAGTAATTTAAATTAGGGTTGGTATTTTCATT
TTTTCTTATCTAAATCTTAGTTTCTGGAATAATAAAGTTTGATGTTTCAGCAAGAGAACTGCTTGAGTTTAAGC
CATTTTCAAAGAAACTTGCCTTTTACATTATTGTGTTCCAGAACATTAAGTGACTGTAGGTACTGGGTATTAGT
GATGGTAACTTTGTGTGCTCTTTATGAAATGATCCATATAACTGTTGGGTGCATCAGTGCTTTTCAAAGGGGC
TGCTTACTATAGGGTTAACTATGTATATTCATTGTTAAGAGTTAACTTGTGGTTTGGCTGTTTCTGGATTTTAT
AACATACATGTGCAGAAATGTATTCAAATGAAAGGAAGCATACCTTTATCAAGATGCTATTAAAATTGAACATCA
AGTATAATATTTTCATTTGGATTCTCTTTTTTGGTTAATGCCTAAAAATGCCTATTTGGGATTTTTTTTTTTTTT
AAATTAAGAGAAGCTCTCTCTGTGTAGAACAGTTGTTCAAAAATAGCTTAGTGTTTTGTTTTCTGTTCATGA
CAGATTTAACTATTCTTTCCAGCAGTGGAGGTGCTGTCAGAGTCCAGTGTTCTAGAAGAGGCAGTGCTAAAGCC
TAATTTTACTTTTTCTAATTCCTGGTAGCTATTACCAGGAATTTTGAAGTTTTGTTTAAGTAGTCTAATATTTTT
TTATGTAAAGAGCATTAAATTTTGCTATGTATAAATTTTGTAACTAACAGTGAATCAATATTTTCTATCAGTG
CCAAGGGCTTCCTGTAGTTCTATTCAAGTGTTACAATAAATATTTGTAGATAATAGTCAATACTTGTGTATGCTT
ATTTTAAAGATCTATTTAGGTGGAAATAGTTGTGGATGTACTAAGAGTAATGAAATAAAATTATAGCTTCATTCA
CTTGCCTTTTTACCATACATAAATCCTATCTTTCTTGTCTCAGTATGGTTTCACTTTT

887/2777
FIGURE 786

MKPAMETAAEENTEQSQERKSGCFECCIKCLGGVPYASLVATILCFSGVALFCGCGHVALAGTVAILEQHFSTN
ASDHALLSEVIQLMQYVIYGIASFFFLYGIILLAEGFYTTSVAVKELHGEFKTTACGRCISGMFVFLTYVLGVAWL
GVFGFSAVPVFMFYNIWSTCEVIKSPQTNGTTGVEQICVDIRQYGIIPWNAFPKGKICGSALENICNTNEFYMSYH
LFIVACAGAGATVIALLIYMMATTYNYAVLKFKSREDCCTKF

888/2777
FIGURE 787

GGGCACGAGGGCAGAGCCAGTTCTAGCGCAGAGCCGCGCCCGCCATGAGGGAGATCGTGACATCCAGGCGGGC
CAGTGCGGGAACCAGATCGGCACCAAGTTTTGGGAAGTGATCAGCGATGAGCACGGCATCGACCCGGCCGGAGGC
TACGTGGGAGACTCGGCGCTGCAGCTGGAGAGAATCAACGTCTACTACAATGAGTCATCGTCTCAGAAATATGTG
CCCAGGGCCGCCCTGGTGGACTTAGAGCCAGGCACCATGGACAGCGTGCGGTCTGGGCCTTTTGGGCAGCTTTTC
CGGCCTGACAACCTTCATCTTTGGCCAGACGGGTGCAGGGAACAACCTGGGCGAAAGGGCACTACACGGAGGGCGCG
GAGCTGGTGGACGCAGTGCTGGACGTGGTGCGGAAGGAGTGCGAGCACTGCGACTGCCTGCAGGGCTTCCAGCTC
ACGCACTCGCTGGGCGGCGGCACGGGCTCAGGCATGGGCACGCTGCTCATCAGCAAGATCCGTGAGGAGTTCCCG
GACCGCATCATGAACACCTTCAGCGTCATGCCCTCGCCCAAGGTGTCGGACACGGTGGTGGAGCCCTACAATGCC
ACACTGTCGGTGCACCAGCTGGTGGAGAATACAGACGAGACCTACTGCATCGACAACGAGGCGCTCTATGACATC
TGCTTCCGCACTCTGAAGCTGACAACGCCCACCTACGGGGACCTCAACCACCTGGTGTCCGCCACCATGAGTGGG
GTCACCACCTCGCTGCGCTTCCCGGGCCAGCTCAATGCTGACCTGCGCAAGCTGGCGGTGAACATGGTGGCCCTTC
CCGCGCCTGCACTTCTTCATGCCTGGCTTCGCGCCGCTCACCAGCCGCGGCAGCCAGCAGTACCGGGCCCTGACC
GTGCCCCGAGCTCACCAGCAGATGTTTCGACGCCAGGAACATGATGGCCGCTGCGATCCGCGCCATGGCCGCTAC
CTGACCGTGGCCACCGTGTTCCGCGGGCCCATGTCCATGAAGGAGGTGGACGAGCAGATGCTGGCCATCCAGAGT
AAGAACAGCAGCTACTTCGTGGAGTGGATTCCCAACAACGTGAAGGTGGCCGTGTGCGACATCCCGCCCCGCGGC
CTGAAGATGGCCTCCACCTTCATCGGCAACAGCACGGCCATCCAGGAGCTGTTCAAGCGCATCTCCGAGCAGTTC
TCAGCCATGTTCCGGCGCAAGGCCTTCCTGCACTGGTTCACGGGTGAGGGCATGGATGAAATGGAGTTCACCGAG
GCGGAGAGCAACATGAACGACCTGGTATCCGAGTACCAGCAGTACCAGGATGCCACCGCCAATGACGGGGAGGAA
GCTTTTGAGGATGAGGAAGAGGAGATCGATGGATAGTCGGAATAGAGCCGCCCAACTCAGATCCTACAACACGC
AAGTTCCTTCTTGAACCCTGGTGCCTCCTACCCTATGGCCCTGAATGGTGCCTGGTTTAATTGTGTTGGTGTGCG
GCCCCTCACAAATGCAGCCAAGTCATGTAATTAGTCATCTGGAACAAAGACTAAAAACAGCAGAGAATTGCGGGT
TCTACCCAGTCAGAAGATCACACCATGGAGACTTTCTACTAGAGGACTTGAAAGAGAACTGAGGGGCCACAAAAT
AACTTCACCTTCCATTAAAGTGTTCAGCATGTCTGCAAAATTAGGAGGGAGTTAGAAACAGTCTTTTTCATCCTT
TGTGATGAAGCCTGAAATTGTGCCGTGTTGCCTTATATGAATATGCAGTATGGGACTTTGAAATAATGATTATA
ATAAAATACTAAACGTGTGTCTTCAAAAAAAAAAAAAAAAAAAAAA

889/2777
FIGURE 788

MREIVHIQAGQCGNQIGTKFWEVISDEHGIDPAGGYVGDSALQLERINVYYNESSSQKYVPRAALVDLEPGTMDS
VRSGPFGQLFRPDNFI FGQTGAGNNWAKGHYTEGAELVDAVL DVVRKECEHCDCLQGFQLTHSLGGGTGSGMGTL
LISKIREFFPDRIMNTFSVMPSPKVSDTVVEPYNATLSVHQLVENTIDETICYIDNEALYDICFRTLKLTTPTYGDL
NHLVSATMSGVTTSLRFPGLNADLRKLAVNMVFPRLHFFMPGFAPLTSRGSQQYRALTVPELTQQMFDARNMM
AACDPRHGRYLTVATVFRGPMSMKEVDEQMLAIQSKNSSYFVEWIPNNVKVAVCDIPPRGLKMASTFIGNSTAIQ
ELFKRISEQFSAMFRRKAFLHWFTGEGMDEMEFTEAESNMNDLVSEYQQYQDATANDGEEAFEDDEEEEIDG

890/2777
FIGURE 789

GAGCTAGCTTTGCAATATGGCGGCCGAGGCGGACGGACCGCTTAAACGGCTGCTCGTGCCGATTCTTTTACCTGA
GAAATGCTACGACCAACTTTTCGTTTCAGTGGGACTTGCTTCACGTCCCCTGCCTCAAGATTCTCCTCAGCAAAGG
CCTGGGGCTGGGCATTGTGGCTGGCTCACTTCTAGTAAAGCTGCCCCAGGTGTTTAAAATCCGGGGAGCCAAGAG
TGCTGAAGGGTTGAGTCTCCAGTCTGTAATGCTGGAGCTAGTGGCATTGACTGGGACCATGGTCTACAGCATCAC
TAACAACCTCCCATTCAGCTCTTGGGGTGAAGCCTTATTCCTGATGCTCCAGACGATCACCATCTGCTTCCTGGT
CATGCACTACAGAGGACAGACTGTGAAAGGTGTCGCTTTCCTCGCTTGCTACGGCCTGGTCTGCTGGTGCTTCT
CTCACCTCTGACGCCCTTGACTGTAGTCACCCTGCTCCAGGCCTCCAATGTGCCTGCTGTGGTGGTGGGGAGGCT
TCTCCAGGCAGCCACCAACTACCACAACGGGTACACAGGCCAGCTCTCAGCCATCACAGTCTTCCTGCTGTTTGG
GGGCTCCCTGGCCCGAATCTTCACTTCCATTAGGAAACCGGAGATCCCCTGATGGCTGGGACCTTTGTGGTCTC
CTCTCTCTGCAACGGCCTCATCGCCGCCAGCTGCTCTTCTACTGGAATGCAAAGCCTCCCCACAAGCAGAAAAA
GGCGCAGTAGAGCCAGCTACTGGAGTCATTCCGTTTCCACTCATTACCCAACTCAGGGTTCTCCCCATCTGAG
CCAGCCTGCTGGTGTGACTTACTCATCCTCCATTCTCTGCACTTGACAGACTTTCTGAGCCAGGGTTTTCTTTTA
GTGGAACAAATGGTTGATGGATCCAGATCCTTAGAAAAGGAGAGGATGGGGGTAGAGTCTCCCAAGCCAAAATT
TTGACATTTGAGTGCTTTCGTAAGCCCTGTACATGTACTATTAATTCAGTCATTACAGCCAAGCCTCCTCCTCTAG
CAGCAATTTCCAGCTGTTTAACTATCCTGGGCAAATGTTTTACCCGTGCTCCTCCAGCCTCCCTGCTTCCCTTCT
GGCCCTGGAAGACTGAGTCTGGACGGCAGAGTGGAGGGACTGGGAGGCTGTGGCTGCCTCCCTCCCTCAGCCCGG
CTGGGACTGTCTCCCGGACCCAGTGTGGGTGGGGGAAGGGGACGGAGAATGACTCAGGCAGGGCCCCAGGG
TGGGGTGAGGAGGTTCTGCTCTGGCAGGTCTAGGCGGAAGGGAGTGGAGATGGGGCTGGTTGCTGCTGCAGTGA
GGGGAACAGATGGGACAATAAAGACTGGAGACTCAGTTGAATAATGCAAAAAAAAAAAAAA

891/2777
FIGURE 790

MAEADGPKRLLVPILLPEKCYDQLFVQWDLHVPCLKILLSKGLGLGIVAGSLLVKLPQVFKIRGAESAEGLS
LQSVMLELVALTGTMVYSITNNFPFSSWGEALFLMLQTITICFLVMHYRGQTVKGVAFLACYGLVLLVLLSPLTP
LTVVTLLQASNVPVVVGRLLQAATNYHNGYTGQLSAITVFLLFGGSLARIFTSIQETGDPLMAGTFVVSSLCNG
LIAAQLLFYWNAKPPHKQKKAQ

892/2777
FIGURE 791

CGCCCCCTTAGGGTGCTCGCCGGCTGTGCGGTGTGGGGGTATGCCAGGCCCCGGAGGACTCGGCTTCCCCGCTAA
CCCCACCCGCCGCACCCACCCAGGCCAGGTCAGAGCAGCCCCACCATGGGATGGGGAGGGGGTGGAGGCTGCACC
CCCCGCCACCCATCCACCAGCAGCCGCCGGAGCGCCGCGTGGTCATCGTTGTCTTTCTCGGCCCTCCTGCTGGAC
CTCCTGGCCTTCACGCTGCTGCTGCCCCTGCTGCCCCGGGCTGTTGGAGAGCCACGGCCGTGCCACGACCCCCCTC
TATGGCTCCTGGCAGGGCGGGGTGGACTGGTTTGGCACCGCCATCGGGATGCCAGTGGAGAAGAGGTACAACAGT
GTCCTGTTCGGAGGTCTCATTGGCTCGGCATTCTCTGTCTGTCAGTTTCTGTGTGCGCCACTCACTGGGGCCACC
TCTGACTGCTTGGGGAGGCGCCCGGTGATGCTGCTGTGCTGATGGGTGTGGCCACCTCATATGCAGTCTGGGCC
ACCTCTCGGAGCTTTGCGGCCCTTCTGGCCTCCAGGCTGATTGGGGGCATCAGCAAAGGGAACGTCAGCCTCTCC
ACGGCCATCGTTGCTGACCTGGGCTCGCCTCTGGCCCCGAGTCAAGGCATGGCGGTCAATTGGGGTGGCCTTCTCA
CTGGGGTTACCCCTGGGGCCCTATGCTCGGAGCCTCCCTGCCCCCTGGAAATGGCACCCCTGGTTTGGCCTGCTCTTC
GCAGCCTCCGACCTGCTGTTTCATCTTCTGCTTCCCTGCCAGAGACGCTGCCCCCTGGAGAAACGGGCGCCCTCTATC
GCCCTGGGGTTCCGTGATGCGGCTGATCTGCTCAGCCCCCTGGCCCTGCTGCGCTTCTCGGCTGTGCTCGTGGC
CAGGACCCACCCTCTGGAGACAGGCTCAGCAGCCTGCGCCGCTGGGCCTAGTCTACTTCTCTACCTCTTCCTG
TTCTCGGGCCTGGAGTACACGCTGAGCTTCCTCACACACCAGCGCTTCAGTTTCAGTAGCCTACAGCAGGGGAAG
ATGTTTTTTCCTCATCGGCCTCACCATGGCCACCATCCAGGGTGCCTATGCCCGGCGGATCCACCCTGGCGGGGAA
GTTGCTGCCGTGAAGCGGGCCCTCCTGCTGCTGGTGCCCGCCTTCCTCCTCATCGGCTGGGGACGTTCTCTGCCC
GTGCTGGGCCTGGGGCTGCTGCTCTACTCCTTTGCCGCCGCGGTTGTGGTGCCCTGCCTGTCTCCTCCGTGGTGGCT
GGCTATGGCTCACCAGGGCAGAAGGGCACGGTCATGGGTACACTGCGCAGCCTAGGTGCTCTGGCCAGGGCCGCG
GGGCCCTGGTGGCCGCTTCAGTGTAAGTGGCTGGCCGGGGCCAGGCCTGCTTACCACGTGGTCCGGGCTCTTT
TTGCTCCCCCTTCTTCTCTGTCAGAAAGCTGAGTTACCCGGCACAGACGCTCAAGGCTGAGTAGCTGAGCCACTGT
GCCCAGGCTGTGGGCACCAGGCAGAGTGGGAGCCTAGGTGAGGCCCTGCCACTGCCTGACCCCCACCCCCGC
CAGTCCAGGGAGACCTGTGGGTGGGGCCGGCCCCCTAAGCAGGAAGCTCAGGCAGCTCCTCCAGACTTACTTAC
TCCTTCAGTGACTCCGAGCTGCAGCACTCCAAGGCTGTCAGGGCTTCTGTTTGTTTTTTAAACTATGCACCAGGT
TTCTGATGATGAAATAAAGCACCTGTTTGT

893/2777
FIGURE 792

MGWGGGGGCTPRPPIHQPPERRVIVVFLGLLLDLLAFTLLLPLLPGLLESHGRAHDPLYGSWQGGVDWFATAI
GMPVEKRYNSVLFGGGLIGSAF SVLQFLCAPLTGATSDCLGRRPVMLLCLMGVATSYAVWATSRSF AAF LASRLIG
GISKGNVSLSTAIVADLGSPLARSQGMVIGVAFSLGFTLGPM LGASLP LEMAPWFALLFAASDLLFIFCFLPET
LPLEKRAPSIALGFRDAADLLSPLALLRFS AVARGQDPFSGDRLSSLRRLGLVYFLYLF LFSGLE YTL SFLTHQR
FQFSSLQQGKMFFLIGLTMATIQGAYARRIHPGGEVAAVKRALLLVPAFL LIGWGRSLPVLGLG LLLYSFAAAV
VVPCLSSVVAGYGS PGQKGTVMGTLRSLGALARAAGPLVAASVYWLAGA QACFTTW SGLFLLPFFLLQKLSYPAQ
TLKAE

894/2777
FIGURE 793

ACGCCCTATACAACCTTGGCTTCACATACTTTTACACTA~~ACT~~TTTATATGATTTTTTAAAACTGGTCTGATCGGACT
TCTCGTCCTGGGACACTGTTTACTGGAGTCTGGCCGGCTCTCCGTGCTCCTCTTGGTACCTCATTITGGGGAGAA
CCTTAAACCCACTCGAGCAGATAATCTCCGCCTTGACCGGTGCCACCAAAGAAGGGTTGGAACC~~ATGT~~GGACTTT
TCTGGGCATTGCCACTTTCACCTATTTTTATAAGAAGTTCGGGGACTTCATCACTTTGGCCAACAGGGAGGTCTCT
GTTGTGCGTGCTGGTGTTCCTCTCGCTGGGCCTGGTGCTCTCCTACCGCTGTCGCCACCGAAACGGGGGTCTCCT
CGGGCGCCAGCGGAGCGGCTCCCAGTTCGCCCTCTTCTCGGATATTCTCTCAGGCCTGCCTTTTCATTGGCTTCTT
CTGGGCCAAATCCCCCCTGAATCAGAAAATAAGGAGCAGCTCGGGGCCAGGAGGCGCAGAAAAGGAACCAATAT
TTCAGAAACAAGCTTAATAGGAACAGCTGCCTGTACATCAACATCTTCTCAGAATGACCCAGAAGTTATCATCGT
GGGAGCTGGCGTGCTTGGCTCTGCTTTGGTAGCTGTGCTTTCCAGAGATGGAAGAAAGGTGACAGTCATTGAGAG
AGACTTAAAAGAGCCTGACAGAATAGTTGGAGAATTCTGCAGCCGGGTGGTTATCATGTTCTCAAAGACCTTGG
TCTTGGAGATACAGTGGAAGGTCTTGATGCCAGGTTGTAAATGGTTACATGATTATGATCAGGAAAACCAATC
AGAGGTTTCAGATTCTTACCCTCTGTTCAGAAAACAATCAAGTGCAGAGTGGAAGAGCTTTCCATCACGGAAGATT
CATCATGAGTCTCCGGAAAACAGCTATGGCAGAGCCCAATGCAAAGTTTATTGAAGGTGTTGTGTTACAGTTATT
AGAGGAAGATGATGTTGTGATGGGAGTTTCAGTACAAGGATAAAGAGACTGGAGATATCAAGGAACCTCCATGCTCC
ACTGACTGTTGTTGCAGATGGGCTTTTTCTCCAAGTTCAGGAAAAGCCTGGTCTCCAATAAAGTTTCTGTATCATC
TCAITTTTGTGGCTTTTCTTATGAAGAATGCACCACAGTTTAAAGCAAATCATGCTGAACCTATTTTTAGCTAACC
GAGTCCAGTTCTCATCTACCGGATTTTCATCCAGTGAAACTCGAGTACTTGTGACATTAGAGGAGAAAATGCCAAG
GAATTTAAGAGAATACATGGTTGAAAAAATTTACCCACAAATACCTGATCACCTGAAAGAACCATTCTTAGAAGC
CACTGACAATTCTCATCTGAGGTCCATGCTAGCAAGCTTCCTTCCTTCATCAGTGAAGAAACGAGGTGTTCT
TCTTTTGGGAGACGCATATAATATGAGGCATCCACTTACTGGTGGAGGAATGACTGTTGCTTTTAAAGATATAAA
ACTATGGAGAAAACCTGCTAAAGGGTATCCCTGACCTTTATGATGATGCAGCTATTTTCGAGGCCAACAAATCATT
TTACTGGGCAAGAAAAACATCTCATTCCTTTGTGCTGAATATCCTTGCTCAGGCTCTTTATGAATTATTTCTGC
CACAGATGATTCCCTGCATCAACTAAGAAAAGCCTGTTTTCTTTATTTCAAACCTGGTGGCGAATGTGTTGCGGG
TCCTGTTGGGCTGCTTTCTGTATTGTCTCCTAACCTCTAGCTTTAATTGGACACTTCTTTGCTGTTGCAATCTA
TGCCGTGTATTTTTGCTTTAAGTCAGAACCTTGGATTACAAAACCTCGAGCCCTTCTCAGTAGTAGTGCTGTATT
GTACAAAGCGTGTTCTGTAAATATTTCTCTAATTTACTCAGAAATGAAGTATATGGTTCA~~TAA~~GCTTAAAGGGG
AACCATTTGTGAATGAATATTTGGAACCTTACCAAGTCCTAAGAGACTTTTGGAAGAGGATATATATAGCATAGTA
CCATACCACTTATAAAGTGGAACCTCTTGGACCAAGATTGGATTAAATTTGTTTTTGAAGTTTTTGTATATAAA
TATGTAAATACATGCTTTAATTTGCAATTTAAAATGAAGGGGTAAATAAGTTAGACATTTGAAAGAAATGATTG
TTACCATAAATTAGTGCTAATGCTGAGGAGAACTACAGTTTTTCTTTTGAATTTAGTATTTGAGATGAGTTGTTG
GGACATGCAATAAAATGAAGAATGAC

895/2777
FIGURE 794

MWTF LGIATFTYFYKKFGDFITLANREVLLCVLVFLSLGLVLSYRCRHRNGGLGRQ RSGSQFALFSDILSGLPF
IGFFWAKSPPESENKEQLGARRRRRKGTN ISETSLIGTAACTSTSSQNDPEVIIVGAGVLGSALVAVLSRDGRKVT
VIERDLKEPDRI VGEFLQPGGYHVLKDLGLGDTVEGLDAQV VNGYMIHDQESKSEVQIPYPLSENNQVQS GRAFH
HGRFIMSLRKAAMAEPNAKFIEGVVLQ LLEEDDVVMGVQYKDKETGDIKELHAPLTVVADGLFSKFRKSLVSNKV
SVSSH FVGFLMKNAPQFKANHAELILANPSPVLIYRISSETRVLVDIRGEMPRNLREYMVEKIYPQIPDHLKEP
FLEATDN SHLRSM LASFLPPSSVKKRGVLLLGDAYNMRHPLTGGGMTVAFKDIKLWRKLLKGIPDLYDDAAIFEA
NKSFYWARKTSHSFV VNILAQALYELFSATDDSLHQLRKACFLYFKLGGE CVAGPVGLLSVLSPNPLALIGHFFA
VAIYAVYFCFKSEPWITKPRALLSSSAVLYKACSVIFPLIYSEM KYMVH

897/2777
FIGURE 796

MERASLIQKAKLAÉQAERYEDMAAFMKGAVEKGEÉLSCEERNLLSVAYKNVVGQRAAWRVLSSIEQKSNEEGSE
EKGPEVREYREKVETELQGVCDTVLGLLDSHLIKEAGDAESRVFYLMKGDYYRYLAEVATGDDKKRIIDSARSA
YQEAMDISKKEMPPTNPIRLGLALNFSVFHYEIANSPÉEAI SLAKTTFDEAMADLHTLSEDSYKDSTLIMQLLRD
NLTLWTADNAGEEGGEAPQEPQS

898/2777
FIGURE 797

AAGCACGGCCAGCGCGCTCGGACTGCAAGAGGGTTAAAAGTGTAGATTGGATTTACCCCTGGAACCTCTAGCACG
CCGAGTGAACCTTGAATCTTTGGCTATTTAAGGAGGACTGGGTTTGTGTGAAGTTGCGGTGATCCAGCGCAGAGC
CCCGTCCTGATTGATCGCATCGCGGGGGCTCAGATGACTGTAAAATGAATAGATGAAATCTTGTCTCTCGAAGA
TTTTCTTGGGCATCTCCCGGAAAGTGCGTTTTAAGGCGAAGT**CATG**ATGTATTCTCCCATCTGTCTCACTCAGGA
TGAATTTACCCATTTCATCGAGGCACCTTCTTCCACATGTCCGTGCAATTGCCTATACTTGGTTCAACCTGCAGGC
TCGAAAACGCAAGTACTTTAAAAAGCATGAGAAGCGAATGTCAAAGGATGAAGAAAGAGCAGTCAAAGATGAGCT
TCTCAGTGAAGAGCCTGAAATCAAACAGAAAGTGGGCATCCAGGCTCCTTGCCAAACTGCGCAAAGATATTCGCCA
GGAGTATCGAGAGGACTTTGTGCTCACCGTGACTGGCAAGAAGCACCCGTGCTGTGTCTTATCCAATCCCCACCA
GAAGGGTAAGATTAGGAGAATCGACTGCCGTGCACAGGCAGACAAAGTCTGGCGTCTGGATCTAGTCATGGTGTAT
CCTGTTCAAAGGCATCCCTTGGAAAAGTACCGATGGAGAGCGGCTCATGAAATCCCCACATTGCACAAACCCAGC
ACTTTGTGTCCAGCCACATCATATCACAGTATCAGTTAAGGAGCTTGATTTGTTTTTGGCATACTACGTGCAGGA
GCAAGATTCTGGACAATCAGGAAGTCCAAGCCACAATGATCCTGCCAAGAATCCTCCAGGTTACCTTGAGGATAG
TTTTGTAAAATCTGGAGTCTTCAATGTATCAGAACTTGTAAGAGTATCCAGAACGCCCATACCCAGGGAACTGG
AGTCAACTTTCCCAATTGGAGAAATCCCAAGCCAACCATATCATGACATGAACTCGGGGGTCAATCTTCAGAG
GTCTCTGTCTTCTCCACCAAGCAGCAAAAGACCCAAAACATATCCATAGATGAAAATATGGAACCAAGTCTTAC
AGGAGACTTTTTACCCCTCTCCAAGTTCACCAGCTGCTGGAAGTGAACATGGCACGAAAGAGATCAAGATATGTC
TTCTCCGACTACTATGAAGAAGCCTGAAAAGCCATTGTTTCAGCTCTGCATCTCCACAGGATTCTTCCCCAAGACT
GAGCACTTTCCCCCAGCACCAACCATCCCGGAATACCTGGAGTTGCACACAGTGTCTCACTCGAACTCCACC
TCCACCTTCACCGTTGCCATTTCCAACACAAGCTATCCTTCCTCCAGCCCCATCGAGCTACTTTTCTCATCCAAC
AATCAGATATCCTCCCCACCTGAATCCTCAGGATACTCTGAAGAACTATGTACCTTCTTATGACCCATCCAGTCC
ACAAACCAGCCAGTCTCTGGTACCTGGGCT**AGC**TTGGTTCCCTTTCCAAGTGTCAAATAGGACACCCATCTTACCGG
CCAATGTCCAAAATTACGGTTTGAACATAATTGGAGAACCTTTTCCTTCAAGCAGAAACAAGCAACTGAGGGAAAA
AGAAACACAACAATAGTTTAAGAAATTTTTTTTTTAAATAAAAAAAGGAAAAGAGGAAGACTGGACAAAAACAAC
ACAAAGGCAGAAAGGAAAGAAACTGAAGAAAGAAGATAATAGACCAGCAATTGCAGCACTTACAATCACTAATTC
CCTTAAGGTTGAAACTGTAATGACATAAAAAGGGTCGATGATATTTCACTGATGGTAGATCGCAGCCCCCTGCAAC
GTAGCCTTTGTTACATGAAGTCCGCTGGGAAATAGATGTTCTGTCTCTATGACAATATATTTAACTGACTTTCT
AGATGCCTTAATATTTGCATGATAAGCTAGTTTTATTGGTTTAGTATTCTTGTGTTTACGCATGGAATCACTAT
TCCTGGTTATCTCACCAACGAAGGCTAGGAGGCGGCTCAGAGATGCTGGGTGACAGAGCCATGAGCCAGCCATT
TTATAAGCACTCTGATTTCTAAAAGTTAAAAAATATATGAAATCTCTGTAGCCTTTAGTTATCAGTACAGATT
TATTAAATTTGGGCCCTTAACCCAGCCTTTTCCAGTGTGTAACCCAGTTTGAAATCTTAAAAAAGAAAAATGAA
AAAAAAGGAAAAAAGAAAAAAGGAAAAAACAGTTTGAACACAAAGGCTCTATGGAAGAAATGCCTCTATGTA
GGTGAAGTGTCTCTCTGCATGCAACAGTAAAAATTAATATAATATTTTCCCCACAAAAGAAACACTTAACAGAG
GCAAGTGAATTTATAAATTTATATCTAAAGGGGAATCATGATTATAAGTCCCTTCAGCCCTTGGACTCTAAATTG
AGGGGATTAAAAAGAATTTAAAAATAATTTTGAACGAATTTATTTTCCCCTCAGTTTTTGAGGGCATTAAAAAGGC
ATTAAATCAAGACAAATCATGTGCTTGAGAAAAATAAAATTAATGAAAACACAGCACTTATGTTGGTTTAGCTGC
AGCCTCCTTGGAGGTAGAATTTATTTATTTAAATTAAGTGTGCATCAAGAACCCATAGGGTGTACAAAAGGTT
CTATAAAATCTGCATTATAGAGACAAAAGAGGCAGGCAAATCCATGTCACAAGGTAAAGCTTACAGTTTACAAAC
TGGGAACGCCAGGGTGTAGGATATAAAAACGCACCTCTTGAGAAAACAAATGTAATCAGGGTGTGAAAACCTTGCA
TGGTGCTTTTCAGACATTAGCCTTGTTCAACAAATTTCTTGATTGACAGATCCATAGTGTGCATGGGCAGACACA
TTTTGCCTCTATGTCTCTTAAATTTTAATTAAAAATACTCTTCCAGTAATCCTAATTTGCACGAAGATATAAT
GTCCACATTACGTGCCTTGCTTGAATCTAAAAACAAAAAACAACAAAAAATAACAACAAAG
TGACATCACTACACTTGTGTTGCTGCATTTATTATCATTTTTAAATCTTTACCATTTTATGACAAAATATTTTGT
ACTCCAGACGAAGAAAAATGTGTGACATCATGGATTTTTTAGACAGTTATACCTTTATCTCACATTTATAAGCA
TATCATGGCTGTGTATAGTTGCCGCTTAAAAATTGTAATCGACCAGCAATATTTTCAGTATTTTGGTGTTTTTT
CTATTAACCTTTTCATGTTTTTCATCTTCCAATTAATATTGGGGGGGAGGGGTTCAAATTTATACGAATTATGC
AATACCAAGTTTGCCTATGTAGGTAGTGCTTTTAGCTGTATTGGTTATTATAGGTAAGTACACAGATT

899/2777
FIGURE 798

MMYSPICLTQDEFHPFIEALLPHVRAIAYTWFNLQARKRKYFKKHEKRMSKDEERAVKDELLSEKPEIKQKWASR
LLAKLRKDIRQEYREDFVLTVTGKKHPCCVLSNPDQKGKIRRIDCLRQADKVWRDLVLMVILFKGIPLESTDGER
LMKSPHCTNPALCVQPHHITVSVKELDLFLAYYVQEQDSGQSGSPSHNDPAKNPPGYLEDSEVKSGVFNSELVR
VSRTPITQGTGVNFPIGEIPSQFYHDMNSGVNLQRLSSPPSSKRPKTISIDENMEPSPTGDFYPSPPSPAAGS
RTWHERDQDMSSPTTMKKPEKPLESSASPQDSSPRLSTFPQHHPGIPGVAHSVISTRTPPPPSPLPFPTQAILP
PAPSSYFSHPTIRYPPHLNPDTLKNYVPSYDPSSPQTSQSWYLG

900/2777
FIGURE 799

CCTGGAACCTCTAGCACGCCGAGTGAACCTGAATCTTTGGCTATTTAAGGAGGACTGGGTTTGTTGTGAAGTTGCG
GTGATCCAGCGCAGAGCCCCGTCCTGATTGATCGCATCGCGGGGCTCAGATGACTGTAAAATGAATAGATGAAAT
TCTTGCTTCTCGAAGATTTTCTTGCGCATCTCCCGGAAAGTGCCTTTTAAGGCGAAGTCATGATGTATTCTCCCA
TCTGTCTCACTCAGGATGAATTTACCCATTTCATGGAAGCACTTCTTCCACATGTCCGTGCAATTGCCTATACTT
GGTTCAACCTGCAGGCTCGAAAACGCAAGTACTTTAAAAAGCATGAGAAGCGAATGTCAAAGGATGAAGAAAGAG
CAGTCAAAGATGAGCTTCTCAGTGAAAAGCCTGAAATCAAACAGAAGTGGGCATCCAGGCTCCTTGCCAAACTGC
GCAAAGATATTGCGCCAGGAGTATCGAGAGGACTTTGTGCTCACCGTGACTGGCAAGAAGCACCCGCTGTGTCT
TATCCAATCCCGACCAGAAGGGTAAGATTAGGAGAATCGACTGCCTGCGACAGGCAGACAAAGTCTGGCGTCTGG
ATCTAGTCATGGTGATCCTGTTCAAAGGCATCCCCCTGGAAAGTACCGATGGAGAGCGGCTCATGAAATCCCCAC
ATTGCACAAACCCAGCACTTTGTGTCCAGCCACATCATATCACAGTATCAGTTAAGGAGCTTGATTGTGTTTTGG
CATACTACGTGCAGGAGCAAGATTCTGGACAATCAGGAAGTCCAAGCCACAATGATCCTGCCAAGAATCCTCCAG
GTTACCTTGAGGATAGTTTTGTAAAATCTGGAGTCTTCAATGTATCAGAACTTGTAAGAGTATCCAGAACGCCCCA
TAACCCAGGGAACTGGAGTCAACTTCCCAATTGGAGAAATCCCAAGCCAACCATACTATCATGACATGAACTCGG
GGGTCAATCTTCAGAGGTCTCTGTCTTCTCCACCAAGCAGCAAAAAGACCCAAAACCTATATCCATAGAYGAAAAATA
TGGAACCAAGTCTACAGGAGACTTTTACCCCTCTCCAAGTTCACCAGCTGCTGGAAGTCGAACATGGCACGAAA
GAGATCAAGATATGTCTTCTCCGACTACTATGAAGAAGCCTGAAAAGCCATTGTTTCAGCTCTGCATCTCCACAGG
ATTCTTCCCCAAGACTGAGCACTTTCCCCCAGCACCCATCCCGGAATACCTGGAGTTGCACACAGTGTCTATCT
CAACTCGAACTCCACCTCCACCTTCACCGTTGCCATTTCCAACACAAGCTATCCTTCCCTCCAGCCCCATCGAGCT
ACTTTTCTCATCCAACAATCAGATATCCTCCCCACCTGAATCCTCAGGATACTCTGAAGAACTATGTACCTTCTT
ATGACCCATCCAGTCCACAAACCAGCCAGTCTGGTACCTGGGCTAGCTTGGTTCCCTTTCCAAGTGTCAAATAGG
ACACCCATCTTACCGGCCAATGTCCAAAATTACGGTTTGAACATAATTGGAGAACCCTTTCCCTTCAAGCAGAAACA
AGCAACTGAGGGAAAAAGAAACACAACAATAGTTTAAAGAAATTTTTTTTTTAAATAAAAAAAGGAAAAGAGGAA
GACTGGACAAAACAACACAAAGGCAGAAAGGAAAGAACTGAAGAAAGAAGATAATAGACCAGCAATTGCAGCAC
TTACAATCACTAATTCCCTTAAGGTTAACTGTAATGACATAAAAAGGGTCGATGATATTTCACTGATGGTAGAT
CGCAGCCCCGTGCAACGTAGCCTTTGTTACATGAAGTCCGCTGGGAAATAGATGTTCTGTCTCTATGACAATATAT
TTTAACTGACTTTCTAGATGCCTTAATATTTGCATGATAAGCTAGTTTTATTGGTTTAGTATTCTTGTGTTTAC
GCATGGAATCACTATTCTGGTTATCTCACCAACGAAGGCTAGGAGGCGGCGTCAGAGATGCTGGGTGACAGAGC
CATGAGCCAGCCATTTTATAAGCACTCTGATTTCTAAAAGTTAAAAAATATATGAAATCTCTGTAGCCTTTAG
TTATCAGTACAGATTTATTAAATTTTCGGCCCTTAACCCAGCCTTTTCCAGTGTGTAACCCAGTTTGAAATCTTAA
AAAAAGAAAAAATGAAAAAAGGAAAAAAGAAAAAGGAAAAAACAGTTTGAACACAAAGGCTCTATGGAA
GAAATGCCTCTATGTAGGTGAAGTGTCTCTCTGCATGCAACAGTAAAAATTAATATAATATTTCCCCACAAAA
GAAACACTTAACAGAGGGCAAGTGCAATTTATTAAATTTATATTCTTAAAGGGGGAATTCATGGATTATTAAGGT
CCTTCAGGCCCTTGGGGACTCTTA

901/2777
FIGURE 800

MMYSPICLTQDEFHPPFMEALLPHVRAIAYTWENLQARKRKYFKKHEKRMSKDEERAVKDELLSEKPEIKQKWASR
LLAKLRKDIRQEYREDFVLTVTGKKHPCCVLSNPDQKGKIRRIDCLRQADKVWRDLVLMVILFKGIPLESTDGER
LMKSPHCTNPALCVQPHHITVSVKELDLFLAYYVQEQDSGQSGSPSHNDPAKNPPGYLEDSEFVKSGVFNVSELVR
VSRTPITQGTGVNFPIGEIPSQFYHDMNSGVNLQRSLSPPSSKRPKTISIDENMEPSPTGDFYPSFSSPAAGS
RTWHERDQDMSSPTTMKKPEKPLESSASPQDSSPRLSTFPQHHPGIPGVAHSVISTRTPPPPSPLPFPTQAILP
PAPSSYFSHPTIRYPPHLNPDTLKNYVPSYDPSSPQTSQSWYLG

903/2777
FIGURE 802

MKAVSPVRPSGRKAPSGCGGGELALRCLAEHGHSLGGSAAAAAAAAAARCKAAEAAADEPALCLQCDMNDYCYSRL
RRLVPTIPPNNKKVSKVEILQHVIDYILDLQLALETHPALLRQPPPPAPPHHPAGTCPAAPPRTPLTALNTDPAGA
VНКQGDSILCR

904/2777
FIGURE 803

TAGTTCTAGATCGCGAGCGGCCGACGAGXCGGCGCTGTGCCTGCGAGTGCATATGAACGACTGCTATAGCCGCCT
GCGGAGGCTGGTGCCACCATCCCGCCCAACAAGAAAGTCAGCAAAGTGGAGATCCTGCAGCACGTTATCGACTA
CATCCTGGACCTGCAGCTGGCGCTGGAGACGCACCCGGCCCTGCTGAGGCAGCCACCACCGCCCGCGCCGCCACA
CCACCCGGCCGGGACCTGTCCAGCCGCGCCGCGCGGACCCCGCTCACTGCGCTCAACACCGACCCGGCCGGCGC
GGTGAACAAGCAGGGCGACAGCATTCTGTGCCGCTGAGCCGCGCTGTCCAGGTGTGCGGTGCGCTGAGCCCGAGC
CAGGAGCACTAGAGAGGGAGGGGGAAGAGCAGAAGTTAGAGAAAAAAGCCACCGGAGAAAGGAAXAAACATCGG
CCAACCTAGAAACGTTTTCATTTCGTTCATTCCAAGAGAGAGAGAGGAAAGAAAAATACAACCTTTCATTCTTTCTTT
GCACGTTCAATAACATTCTACATACGTATTCTCTTTTGTCTCTTCATTATATAACTGCTGTGAATTGTACATTTCT
GTGTTTTTTGGAGGTGCAGTTAACTTTTAAAGCTTAAAGTGTGACAGGACTGATAAATAGAAGATCAAGAGTAGAT
CCGACTTTAGAAGCCTACTTTGTGACCAAGGAGCTCAATTTTTGTTTTGAAGCTTTACTAATCTACCAGAGCATT
GTAGATATTTTTTTTTTTACATCTATTGTTTAAATAGATGATTATAACGGGGCAGAGAACTTTCTTTTCTCTGCA
AGAATGTTACATATTGTATAGATAAATGAGTGACATTTTCATACCATGTATATATAGAGATGTTCTATAAGTGTGA
GAAAGTATATGCTTTAATAGATACTGTAATTATAAGATATTTTTAATTAAATATTTTTGTAAATATTATGTGT
GTGTTTTTTTTTAACTCTATGGGAATATTTCTTTTGGAAAATCATTTTTCAGCTCAATTACAGAGCTCTTGATATC
TTGAATGTCCTTTCTGTTTGGCCTGGCTCTTAATTTGCTTTTGTGTTTGGCCAGTATAGACTCGGAAGTAACAGTT
ATAGCTAGTGGTCTTGCAATGATTGCATGAGATGTTTAAATCACAATTAACCTTGTTCTGAGTCCATTCAAATGTG
TTTTTTTTAAATGTAGATTGAAATCTTTGTATTTGAAGCATACATGTTGAAARTACACCTTATCAGTTTTTAAAGTA
CAGGGTTTTATAGTGAATATATACAGAGTAAGTGTGTTTTGTTTTGTTTTCAACTGAGGTCAAAATGGATTCTGX
AATGATTTTGCATATGGGATGAGGAAATGCTTGGATCCTTAAGGAGTTTACGAAATCTGCTGTTTTATCAAAGTG
AAAAAAATTTGCTTATTACTCTTCATTTTACACTAAAGCTTAATGTCACCTAAGTTTCATGTCTGTACAGATTATT
TAAATCATGGAAATGAAAAAATGTTCTCTGCTTGCTACCAAAGGACAAACTCTTGAAATGAACACTTTCTGCT
TTCTTTCTCCAAAGAATTAATAGGCAACAGTGGGAGAAAAAAGGCATAATGGCAAATCCTTCAAGCAGGGAT
AAAAGTCGATCTTCAAACATTAACCTTAAGCAGACCAAAATTTCTGATGACCGCATCTAGATTATTTTTTATAAA
AATGATTTTCACTATAGCTATGTTACGCTAAGCTACTGTCCAATCTCTTGTGATGTGTAACCTTTTACATGTGAAT
ATTAAAGTAGATTCTCTGTCTTGACTGTGATTTCTGGTCTCATTTCTTTAAACCTTACTCATTTTTCTTTTA
AGGCTCTTTTTTCTCCTTAAGGAAGGTAATATTTTCTAGGTTAGATAGGACTATCAGGGTTTGTGAACATTATGC
ATTTAATGTTATGGGTACTTTACACACAAGTTAGATGGAATTTTTAGAGTGAAAGAATTAAGTAGGATTTAATTG
GGTGCTTTGTAAATAGTCAACTGTGTGTATAACGTGGTCTGTTTGATTTTTTAAAGGAAAGGATTTGTTTCAGAT
TATACAAGAATAAAAGTATTATAGACCCAAGGGACTTCTTATGAGGTCAAATTCAGATATTTATATGAATATGAA
ATACCATGGTCCCTAGTAGTCAGTTGAAGTGGCAATGTCTAAACAGAAATGAACAAAATAATGCTAGCAGGTTA
AAATCAATCAAAATGTTTAAAAATTGATTCTGTCTCAGCATGTTAYTTCTCAGCTCTGATAATTTACTGGTCT
TGAGTATTTTGAGAATTTGATGTTGAACGTTATAAAGTCAAAGAAGTCTTGTTTAGATGAGGTTTATTTTTATT
TTTGATATTATTCAATCTTGTGCACATCAAGAAGAAAACACTAGAGTGCTGCTGGAATTCCAAATCTGAAGAAT
TCTAACGACTGCATTCTTTGTATTAAAAAGGGCACAATCCTTCTTTTTATTTGGCAGTTTAATTTTCAGTAGGA
AGCATGTGCATGTGCACTGTTGGTTAGAATTATGCATCTGTCTGCTGACTGCTGAACCTTACCTAAGCCTTT
TGGCGCAGTTTAAACCTTATACTGGTGGACTGTGAACCTCAAAACAAATGGGTATTTTTGGGTTTTGAGGATAGA
TGTTACTCCTTAAAGTTTGTATTTGGGGCATGAAAACTACTGAAAGAAGAAAAGTGCTACAGATACTACATTTT
AAAGAGTTGGCATTTTCCCTTTGGCCACTCAAGCAGCATTTGATGTATCTAAAGAAGAAAAGTCAATGTTTATTT
TTTTAAAAATTATATGCAGTTGTACAAGATACTACATTCCATTGAAATGTTGGCTATGTCCTAACCAGGCAACCA
GATAACAAAAACATTTTGGAGTCTTTTATCTAGGTAGTTCTAATTATTTCAGCTACTTAGTTTAAACAAAGGAAAATA
TCCTGACTTCTCTCATTTTCATTTGTAGACTTTTTCATTGTATAGGCACAACCAAGAGTCAGACTGGTTTAAACT
CCAGAAGGAAAAAAGTATCCACACAGTGGATGTTGTTTCTAAGAATGCTACAAAATCCTGACATCTCAGACAT
CTCAATGTTAAAGGAAGAAAAAATACCTTTTCATTTCAAAGAATAATATACTTTGATATTGTGTAAACCTTA
CTCAAGTTTATTGTCAAGCTTTAACTGCCTTTTTAGAACTTTTTAAATTTTCGAGCCCACAAATCTATTGTATTA
GTTGCCTTCTATAACAATAAATCTTCACTGAGCAAAAAAAAAAAAAAAAAAAAAAAAAAXCCXGGGGGGGGGG
CCC

905/2777
FIGURE 804

GCTCTTTCCAACGCTGTAAAAAGGACAGAGGCTGTTCCCTATGGCAGAAGGCAACCACAGAAAAAGCCACTTAA
GGTGTGGGAATCCCTGGGCAAAGATTTCTCACTGGTGTGGGATAACTTGGTGGAACAAAATGTACTGAACTG
GAAGGAAGAGGAAAAAAGAAATATTACGATGCTAAACTGAAGACAAAGTTCGGGTCATGGCAGACTCTATGCA
AGAGAAGCAACGTATGGCAGGACAAATGCTTCTTCAAACCTTTTTTAACATAGACCAAATATCCCCCAATAAAAA
AGGTGATAAATTGGGTACAGAGGCAGAAATCACAATTTATGTTCTGCAATATCCTGCAGCTCATCCGAATATCGG
AGGCTGGACCACCTGAGTCAGGAGAATCTACAGATGCCCTCAAGCTTTGTCCTCATGAAGAATTCTGAGACTAT
GTAAAGAAAGAGCTGAAGAGATCTATCCAATAAAGGAGAGAAACAACCGCACACGCCTGGCTCTCATCATATGCA
ATACAGAGTTTGACCATCTGCCTCCGAGGAATGGAGCTGACTTTGACATCACAGGGATGAAGGAGCTACTTGAGG
GTCTGGACTATAGTGTAGATGTAGAAGAGAATCTGACAGCCAGGGATATGGAGTCAGCGCTGAGGGCATTGCTA
CCAGACCAGAGCACAAAGTCTCTGACAGCACATTCTTGGTACTCATGTCCTCATGGCATCCTGGAGGGAATCTGCG
GAACTGTGCATGATGAGAAAAACCAGATGTGCTGCTTTATGACACCATCTTCCAGATATTCAACAACCGCAACT
GCCTCAGTCTGAAGGACAAACCCAAGGTCAATCATTGTCCAGGCCTGCAGAGGTGCAAACCGTGGGGAACTGTGGG
TCAGAGACTCTCCAGCATCCTTGGAAGTGGCCTCTTCACAGTCATCTGAGAACCTGGAGGAAGATGCTGTTTACA
AGACCCACGTGGAGAAGGACTTCATTGCTTTCTGCTCTTCAACGCCACACAACGTGTCCTGGAGAGACAGCACAA
TGGGCTCTATCTTCATCACACAACCTCATCATATGCTTCCAGAAATATTCTTGGTGCTGCCACCTAGAGGAAGTAT
TTCGGAAGGTACAGCAATCATTGAAACTCCAAGGGCCAAAGCTCAAATGCCACCATAGAACGACTGTCCATGA
CAAGATATTTCTACCTCTTCTGCAATTGAAAAATGGAAGCCACAAGCAGCCCAGCCCTCCTTAATCAACTTCA
AGGAGCACCTTCATTAGTACAGCTTGCATATTTAACATTTGTATTTCAATAAAAGTGAAGACAAACG

906/2777
FIGURE 805

MEAGPPESGESTDALKLCPHEEFLRLCKERAEEIYPIKERNNRTRLALIICNTEFDHLPPRNGADFDITGMKELL
EGLDYSVDVEENLTARDMESALRAFATRPEHKSSDSTFLVLMSHGILEGICGTVHDEKKPDVLLYDTIFQIFNNR
NCLSLKDKPKVIVQACRGANRGELWVRDSPASLEVASSQSSENLEEDAVYKTHVEKDFIAFCSSTPHNVSWRDS
TMGSIFITQLITCFQKYSWCCHLEEVFRKVQOSFETPRAKAQMPTIERLSMTRYFYLFPGN

907/2777
FIGURE 806

GAGCCCAGCCGAGCGTCCGCCGCTGCCCGTGCGCCTCTGCGCTCCGCGCCATGGCCGGCCTCAACTCCCTGGAGG
CGGTGAAACGCAAGATCCAGGCCCTGCAGCAGCAGGCGGACGAGGCGGAAGACCGCGCGCAGGGCCTGCAGCGGG
AGCTGGACGGCGAGCGCGAGCGGGCGGAGAAAGCTGAAGGTGATGTGGCCGCCCTCAACCGACGCATCCAGCTCG
TTGAGGAGGAGTTGGACAGGGCTCAGGAACGACTGGCCACGGCCCTGCAGAAGCTGGAGGAGGCAGAAAAAGCTG
CAGATGAGAGTGAGAGAGGAATGAAGGTGATAGAAAACCGGGCCATGAAGGATGAGGAGAAGATGGAGATTCAGG
AGATGCAGCTCAAAGAGGCCAAGCACATTGCGGAAGAGGCTGACCGCAAATACGAGGAGGTAGCTCGTAAGCTGG
TCATCCTGGAGGGTGAGCTGGAGAGGGCAGAGGAGCGTGCGGAGGTGTCTGAACTAAAATGTGGTGACCTGGAAG
AAGAACTCAAGAATGTTACTAACAATCTGAAATCTCTGGAGGCTGCATCTGAAAAGTATTCTGAAAAGGAGGACA
AATATGAAGAAGAAATTAACTTCTGTCTGACAACTGAAAGAGGCTGAGACCCGTGCTGAATTTGCAGAGAGAA
CGGTTGCAAACTGGAAGAGACAATTGATGACCTGGAAGAGAACTTGCCAGGCCAAAGAAGAGAACGTGGGCT
TACATCAGACACTGGATCAGACACTAAACGAACTTAAGTATATATAAGCAAAACAGAAGAGTCTTGTTCCAACAG
AAACTCTGGAGCTCCGTGGGTCTTTCTCTTCTCTTGTAAAGAAGTTCCTTTTGTATTGCCATCTTCGCTTTGCTG
GAAATGTCAAGCAAATTATGAATACATGACCAAATATTTTGTATCGGAGAAGCTTTGAGCACCAGTTAAATCTCA
TTCTTTCCCTTTTTTTTTTCAAATGGCACCAGCTTTTTTCAGCTCTCTTATTTTTTTCCTTAAGTAGCATTATTCCT
AAGGTAGGCAGGGTATTTCTAGTAAGCATACTTTCTTAAGACGGAGGCCATTTGGTTCCTGGGAGAATAGGCAG
CCCCACACTTTGAAGAATACAGACCCAGTATCTAGTCGTGGATATAATTAAACGCTGAAGACCATAACCTTTT
GGGTCAACTGTTGGTCAAACATATAGGAGAGACCAGGGACCATCACATGGGTAGGGATTTTCCATCCAGAGCCAAT
AAAAGGACTGGTGGGGGCGGGGGTGGCTATTGTGGGAAGTCATAACCCACAGATAGATCAACCTAAGAATCCTG
GCCCTTCTCCACTCTCCACCATGCAGGACAAACATCTTCTCAAGCAGTCAACGTAGAATGCTTGGGAAATAGTCA
TAATTACCCACATATAGTAATTAATAGATGGTAATTAATTGATCCTTGATGTGATGTTCTTTTGCATATTCCTT
CATTCTAAAGTTGTTCCCTGGCCGGGAGCGTTTGCTTTCGCCTGTAATCCCAACACTTTGGGAGGCCAGGACAGA
TCACTTGAGGTGAGGAGTTCGAGACCAGCCAGCCAACATGGCGAAACCATGTCTCTACTAAAAATACAAAAATT
ATGGTGACGCCTGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGGATCGCTTGAACCCAGGAAGTGGAG
ACTGCAGTGAGCCGATATCGCACACAGCGCTCCAGCCTGGTCGACAGAGTGAGACTCCATCTCAAGAAAAAATA
AAAATAAAGTTGTTCTCTGAAGAGCAAATGTCTCATTCCAGTAATGACCCACTCAGCAGGAATATGGTGGAGTTC
AGTCCAATTCAGGTGAGCCATATCCAAAAGACCACAAGTCATTACTAAGTTGAGCAAAAGAGTTTTTATCTATTA
GCAGAAAGGGCCTCTCTGGCAGCAGAGATTAAAACTGGCCCAACTTCATTTCCATACTTCAGGGAAACAGCAAAT
TGAGGATTTACTTATCTAGGACTT

908/2777
FIGURE 807

MAGLNSLEAVKRKIQALQQQADEAEDRAQGLQRELDGERERREKAEGDVAALNRRIQLVEEELDRAQERLATALQ
KLEEAekaADESERGMKVIENTRAMKDEEKMEIQEMQLKEAKHIAEEADRKYEEVARKLVILEGELERAEEERAES
ELKCGDLEEELKNVTNNLKSLEAASEKYSEKEDKYEEEIKLLSDKLKEAETRAEFAERTVAKLEKTIDDLEEKLA
QAKEENVGLHQTLTDQTLNELNCI

909/2777
FIGURE 808

GGCACGAGGGGAAGGTGGCCGAGCGCCCGCGCTGCCCACTCGCTCGCTCGCGCACTCAGACGCGCGCCACAACAG
CGCGCCCCAAGCTGCGCAGCTCTGCAAAAGTTTCTGCTCGGGATCTGGCTCTCTTCCCCTTGGACTTTAGAACGA
TTTAGGGTTGACAGAGGAAAGCAGAGGCGCGCAGGAGGAGCAGAAAACACCACCTTCTGCAGTTGGAGGCAGGCA
GCCCCGGCTGCACTCTAGCCGCCGCGCCCGGAGCCGGGGCCGACCCGCCACTATCCGCAGCAGCCTCGGCCAGGA
GGCGACCCGGGCGCCTGGGTGTGTGGCTGCTGTTGCGGGACGTCTTCGCGGGGCGGGAGGCTCGCGCCGCAGCCA
GCGCCATGCAAACTACAAGTACGACAAAGCGATCGTCCCGGAGAGCAAGAACGGCGGCAGCCCGGCGCTCAACA
ACAACCCGAGGAGGAGCGGCAGCAAGCGGGTGCTGCTCATCTGCCTCGACCTCTTCTGCCTCTTCATGGCGGGCC
TCCCCTTCTCATCATCGAGACAAGCACCATCAAGCCTTACCACCGAGGGTTTTACTGCAATGATGAGAGCATCA
AGTACCCACTGAAAAGTGGTGAGACAATAAATGACGCTGTGCTCTGTGCCGTGGGGATCGTCATTGCCATCCTCG
CGATCATCACGGGGGAATTCTACCGGATCTATTACCTGAAGAAGTCGCGGTGACGATTGAGAACCCCTACGTGG
CAGCACTCTATAAGCAAGTGGGCTGCTTCCTCTTTGGCTGTGCCATCAGCCAGTCTTTACAGACATTGCCAAAG
TGTCCATAGGGCGCCTGCGTCCTCACTTCTTGAGTGTCTGCAACCCTGATTTTCAGCCAGATCAACTGCTCTGAAG
GCTACATTGAGAACTACAGATGCAGAGGTGATGACAGCAAAGTCCAGGAAGCCAGGAAGTCCTTCTTCTCTGGCC
ATGCCCTCCTTCTCCATGTACACTATGCTGTATTGTTGGTGCTATACCTGCAGGCCCGCTTCACTTGGCGAGGAGCCC
GCCTGCTCCGGCCCCCTCCTGCAGTTCACCTTGATCATGATGGCCTTCTACACGGGACTGTCTCGCGTATCAGACC
ACAAGCACCATCCAGTGATGTTCTGGCAGGATTTGCTCAAGGAGCCCTGGTGGCCTGCTGCATAGTTTTCTTCG
TGTCTGACCTCTTCAAGACTAAGATGACGCTCTCCCTGCCTGCCCTGCTATCCGGAAGGAAATCCTTTCACCTG
TGGACATTATTGACAGGAACAATCACCACAACATGATGTAGGTGCCACCCACCTCCTGAGCTGTTTTTGTAAAT
GACTGCTGACAGCAAGTTCTTGCTGCTCTCCAATCTCATCAGACAGTAGAATGTAGGGAAAACTTTTGCCCGAC
TGATTTTTTAAAAAAAAAAAAAAAAAAAA

910/2777
FIGURE 809

MQNYKÝDKAIVPESKNGGSPALNNNPÞRRSGSKRVLLICLDLFCFLMAGLPFLIIETSTIKPYHRGFYCNDSEIKY
PLKTGETINDAVLCavgivIAILAIITGEFYRIYYLKKSRSTIQNPYVAALYKQVGCFLFGCAISQSFTDIKVS
IGRLRPHFLSVCNPDFSQINCSEGYIQNYRCRGDDSKVQEARKSFFSGHASFSMYTMLYLVLVYLQAREFTWRGARL
LRPLLQFTLIMMAFYTGLSRVSDHKHHPSDVLAGFAQGALVACCIVFFVSDLFKTKMTLSLPAPAIRKEILSPVD
IIDRNNHHNMM

911/2777
FIGURE 810

GGCACGAGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCGCCGCCATGACGCTGCGCGGCGCCGTCTTCGACCTTGACG
GGGTGCTGGCGCTGCCAGCGGTGTTTCGGCGTCCCTCGGCCGCACGGAGGAGGCCCTGGCGCTGCCAGAGGACTTC
TGAATGATGCTTTCCAGAAAGGGGGACCAGAGGGTGCCACTACCCGGCTTATGAAAGGAGAGATCACACTTTCCC
AGTGGATACCACTCATGGAAGAAACTGCAGGAAGTGCTCCGAGACCGCTAAAGTCTGCCTCCCCAAGAATTTCT
CCATAAAAGAAATCTTTGACAAGGCGATTTTCAGCCAGAAAGATCAACCGCCCCATGCTCCAGGCAGCTCTCATGC
TCAGGAAGAAAGGATTCACTACTGCCATCCTCACCAACACCTGGCTGGACGACCGTGCTGAGAGAGATGGCCTGG
CCCAGCTGATGTGTGAGCTGAAGATGCACTTTGACTTCCTGATAGAGTCGTGTGAGGTGGGAATGGTCAAACCTG
AACCTCAGATCTACAAGTTTCTGCTGGACACCCCTGAAGGCCAGCCCCAGTGAGGTCGTTTTTTTTGGATGACATCG
GGGCTAATCTGAAGCCAGCCCGTGACTTGGGAATGGTCAACCATCCTGGTCCAGGACACTGACACGGCCCTGAAAG
AACTGGAGAAAGTGACCGGAATCCAGCTTCTCAATACCCCGGCCCTCTGCCGACCTCTTGCAATCCAAGTGACA
TGAGCCATGGGTACGTGACAGTAAAGCCCAGGGTCCGTCTGCATTTTGTGGAGCTGGGCTGGCCTGCTGTGTGCC
TCIGCCATGGATTTCCCGAGAGTTGGTATTCTTGAGGTACCAGATCCCTGCTCTGGCCCAGGCAGGTTACCGGG
TCCTAGCTATGGACATGAAAGGCTATGGAGAGTCATCTGCTCCTCCCGAAATAGAAGAATATTGCATGGAAGTGT
TATGTAAGGAGATGGTAACCTTCCTGGATAAACTGGGCCTCTCTCAAGCAGTGTTTCATTGGCCATGACTGGGGTG
GCATGCTGGTGTGGTACATGGCTCTCTTCTACCCCGAGAGAGTGAGGGCGGTGGCCAGTTTGAATACTCCCTTCA
TACCAGCAAATCCCAACATGTCCCTTTGGAGAGTATCAAAGCCAACCCAGTATTTGATTACCAGCTCTACTTCC
AAGAACCAGGAGTGGCTGAGGCTGAACTGGAACAGAACCTGAGTCGGACTTTCAAAGCCTCTTCAGAGCAAGCG
ATGAGAGTGTATTTATCCATGCATAAAGTCTGTGAAGCGGGAGGACTTTTGTAAATAGCCAGAAGAGCCCAGCC
TCAGCAGGATGGTCACTGAGGAGGAAATCCAGTTCTATGTGCAGCAGTTCAAGAAGTCTGGTTTCAGAGGTCCTC
TAAACTGGTACCGAAACATGGAAGGAAGTGGGCTTGCAAAAGCTTGGGACGGAAGATCCTGATTCCGG
CCCTGATGGTCACGGCGGAGAAGGACTTCGTGCTCGTTCCTCAGATGTCCAGCACATGGAGGACTGGATTCCCC
ACCTGAAAAGGGGACACATTGAGGACTGTGGGCACTGGACACAGATGGACAAGCCAACCGAGGTGAATCAGATCC
TCATTAAGTGGCTGGATTCTGATGCCCCGGAACCCACCGGTGGTCTCAAAGATGTAGAACGCAGCGTAGTGCCAC
GCTCAGCAGGTGTGCCATCCTTCCACCTGCTGGGGCACCATTCTTAGTATACAGAGGTGGCCTTACACACATCTT
GCATGGATGGCAGCATTGTTCTGAAGGGGTTGCAGAAAAAAGATTTTCTTTACATAAAGTGAATCAAATTTG
ACATTATTTTAGATCCCAGAGAAATCAGGTGTGATTAGTTCTCCAGGCATGAATGCATCGTCCCTTTATCTGTAA
GAACCTTAGTGTCTGTAGGGGGACAGAATGGGGTGGCCAGGTGGTGAATTTCTCTTTGACCAATGCATAGTTTG
GCAGAAAAATCAGCCGTTTATTTAGAAGAATCTTAGCAGAGATTGGGATGCCTTACTCAATAAAGCTAAGATGAC

912/2777
FIGURE 811

MTLRGAVFDLDGVLALPAVFGVLGRTEEALALPRGLLND AFQKGGPEGATTRLMKGEITLSQWIPLMEENCRKCS
ETAKVCLPKNFSIKEIFDKAISARKINRPMLQAALMLRKKGFTTAILTNTWLDDRAERDGLAQLMCELKMHDFDL
IESCQVGMVKPEPQIYKFLLDTLKASPSEVVFLDDIGANLKPARDLGMVTILVQD TD TALKELEKVTGIQLL NTP
APLPTSCNPSDMSHGYVTVKPRVRLHFVELGWPAVCLCHGFPESWYSWRYQIPALAQAGYRVLAMDMKGYGESSA
PPEIEEYCMEVLCKEMVTFLDKLGLSQAVFIGHDWGGMLVWYMALFYPERVRAVASLNTPFIPANPNMSPLESIK
ANPVFDYQLYFQEPGVAAEAEQNL SRTFKSLFRASDESVL SMHKVCEAGGLFVNSPEEPSLSRMVTEEEIQFYV
QQFKKSGFRGPLNWYRNMERNWKKWACKSLGRKILIPALMVTAEKDFVLVPQMSQH MEDWIPHLKRGHIEDCGHWT
QMDKPTEVNQILIKWLDS DARNPPVVSKM

913/2777
FIGURE 812

GCCCCCGGTCCACGCCGCGCACCGCTCCGAGGGCCAGCGCCACCCGCTCCGCAGCCGGCACCATGCGCGAGATC
GTGCACATCCAGGCGGGCCAGTGCGGCAACCAGATCGGCGCCAAGTTTTGGGAGGTCATCAGCGATGAGCATGGG
ATCGACCCACAGGCAGTTACCATGGAGACAGTGAATTCAGCTGGAGAGAATCAACGTGTACTACAATGAGGCT
GCTGGTAACAAATATGTACCTCGGGCCATCCTGGTGGATCTGGAGCCTGGCACCATGGACTCTGTCTAGGTCTGGA
CCCTTCGGCCAGATCTTCAGACCAGACAACCTTCGTGTTTCGGCCAGAGTGGAGCCGGGAATAACTGGGCCAAGGGC
CACTACACAGAGGGAGCCGAGCTGGTCTGACTCGGTCTGGATGTGGTGAAGGAGTCAGAGAGCTGTGACTGT
CTCCAGGGCTTCCAGCTGACCCACTCTCTGGGGGGCGGCACGGGGTCCGGGATGGGCACCCTGCTCATCAGCAAG
ATCCGGGAAGAGTACCCAGACCGCATCATGAACACCTTCAGCGTCATGCCCTCACCCAAGGTGTCAGACACGGTG
GTGGAGCCCTACAACGCCACCCTCTCGGTCCACCAGCTGGTGGAAAACACAGATGAAAACCTACTCCATTGATAAC
GAGGCCCTGTATGACATCTGCTTCCGCACCCTGAAGCTGACCACCCCACTACGGGGACCTCAACCACCTGGTG
TCGGCCACCATGAGCGGGGTACCCACCTGCCTGCGCTTCCCGGGCCAGCTGAACGCAGACCTGCGCAAGCTGGCG
GTGAACATGGTGGCCTTCCCTCGCCTGCACTTCTTCATGCCCCGCTTCGCGCCCCTGACCAGCCGGGGCAGCCAG
CAGTACCGGGCGCTCACGGTGGCGAGCTACCCAGCAGATGTTGACTCCAAGAACATGATGGCCGCTGCGAC
CCGCGCCACGGCCGCTACCTGACGGTGGCTGCCATCTTCCGGGGCCGCATGTCCATGAAGGAGGTGGACGAGCAG
ATGCTCAACGTGCAGAACAAGAACAGCAGCTACTTCGTGGAGTGGATCCCCAACAACGTGAAGACGGCCGTGTGC
GACATCCCGCCCCGCGGCCTGAAGATGTCGGCCACCTTCATCGGCAACAGCACGGCCATCCAGGAGCTGTTCAAG
CGCATCTCCGAGCAGTTCACGGCCATGTTCCGGCGCAAGGCCTTCCTGCACTGGTACACGGGCGAGGGCATGGAC
GAGATGGAGTTCACCGAGGCCGAGAGCAACATGAACGACCTGGTGTCCGAGTACCAGCAGTACCAGGACGCCACG
GCCGACGAACAAGGGGAGTTCGAGGAGGAGGAGGGCGAGGACGAGGCTTAAAAACTTCTCAGATCAATCGTGCAT
CCTTAGTGAACCTTCTGTTGTCTCAAGCATGGTCTTTCTACTTGTAACATATGGTGCTCAGTTTTGCCTCTGTTA
GAAATTCACACTGTTGATGTAATGATGTGGAACCTCTCTAAAAATTACAGTATTGTCTGTGAAGGTATCTATACT
AATAAAAAAGCATGTGTAG

914/2777
FIGURE 813

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGSYHGDSLQLERINVYYNEAAGNKYVPRAILVDLEPGTMDS
VRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKESESCDCLQGFQLTHSLGGGTGSGMGTL
LISKIREEYPDRIMNTFSVMPSPKVSDTVVEPYNATLSVHQLVENTDETYSIDNEALYDICFRTLKLTTPTYGDL
NHLVSATMSGVTTCLRFPGQLNADLRKLAVNMVFFPRLHFFMPGFAPLTSRGSQQYRALTVPELTQQMFDSKNMM
AACDPRHGRYLTVAAlFRGRMSMKEVDEQMLNVQKNSSYFVEWIPNNVKTAVCDIPPRGLKMSATFIGNSTAIQ
ELFKRISEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVSEYQQYQDATADEQGEFEEEEGEDEA

915/2777
FIGURE 814

GGCAGGAGGTGATATTTGACAGGCTGCGCGCGGGCGAGCTGCCGCGGAGCACCCGGCAGGGGCTGACAGCATGGC
CTCGCCCCGACCCGCCCCGCCACCAGCTACGCCCCGTCCGACGTGCCCTCGGGGGTCGCGCTGTTCTCACCATCCC
TTTCGCCTTCTTCTGCCCCGAGCTGATATTTGGGTCTTGGTCTGGACCATGGTAGCCGCCACCCACATAGTATA
CCCCTTGCTGCAAGGATGGGTGATGTATGTCTCGCTCACCTCGTTTCTCATCTCCTTGATGTTCTGTTGTCTTA
CTTGTTTGGATTTTACAAAAGATTTGAATCCTGGAGAGTTCTGGACAGCCTGTACCACGGGACCACTGGCATCCT
GTACATGAGCGCTGCCGTCCTACAAGTACATGCCACGATTGTTTCTGAGAACTGCTGGACCCAAGAATTTACTA
CATTAAATTCGGCAGCCTCGTTCTTCGCCTTCATCGCCACGCTGCTCTACATTCTCCATGCCTTCAGCATCTATTA
CCACTGATGCACAGGCGCCAGGCCAAGGGGAAATGCTCTTTGAAAGCTCCAATTATTGGTCCCCAAAAGCAGCT
TCCAACGTTTTGCCATCTGGATGACAAACGGAAGATCCACTAAAACGTCCACGGGATTAACAGAACGTCCTTGCA
ACTGAGCGATGACACCACACTTTGTTTGGACATTTAAATTCACCTCTGCTGAATAGGAGGAAGCTTTTCTTTTTCC
TGGGAAAACAACCTGTCTCTTGGAAATTATCTGACCATGAACCTGCTCTTCTAGACAACCTCACATCAAAGCCCTCAC
TCCACTAATGGAGAATCCTAGCCCCACTAATGCCAAGTCTGTTTGGGGATTTTGCCTCAGCTATGGGCTTCCCTA
GAGTAGGTCTAGGGGAATACTCAGTCTGATCTTTTTTTTGTGTTTATTTTGTGTTTTTTTGTAGACGGAGTCTC
GCTCTTCTCCAAGGCTGGAGTGCAGTGACGCGATCTCCACTCACTGCAGGCTCCGCCTCCCGGGTTCCCGCCAT
TCTCCTGCCTCAGCCTCCCGAGTAGCCGGGACTACAGGCGCCACCACCATGCCCGGCTAATTTAGTTGTATTTT
TAGTAGAGATGGGGTTTACCGTATTAGCCAGGATGGTCTCGATCTCCTGACCTCGTGATCCGCCCCGCTCGGCC
TCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGTGCCCGGCCTGATTCTCTTAAATGAAGAGGTGCTGCCA
AGGCCTTCAGATCTAACGCAGATGCATAGACCTTGTTCTTGGTACTTGTTTCAGCCTGTGCTGGGGAGCCGTGGTC
CCGAGTTCCCTGGGAGGCTGACAGGGTCAAGCCACCCTGCCACCCACCTCCCACTTCCCCTCCCCTTTCTCTC
CAGCATTAGGATTCAAGGAAATCTGCATGAAGCCAATTTGAGGGTAGACGTGTGGGGAAAATAAATCATTATA
CAGTAAGACCTGGGGCTTGAGGGGTGGGGAATGGGGAGGGAAGGGCATAGCCTGCTCCTCCATGAGTCTGACATC
TCGGAAACTGAGCAGCTGCCGGACGCTGGGTGAGGAATCCAAGACCCACCTCTTAAGGACTGGTTCTCAGAA
AGCACCTCAGGGAAAAAGGTGAAAACATTACATCCGTGGATTCTCCTGCCACAACCGCATTGGAAGAAAAGGCT
GCCGCAACATCTCAGCGAGGAGTGAAGGACCCATGTCCAGGAACCGCGCTGCGCCACCTGCACTACCCCCCTC
ACATTCTCTTAAGCACCCGGTGGCCCTCCGAGGCCTGGCGGAATGGTGGTGCCACGGGGTTGGGCAAGGGCTCA
CCAGGACCTCAACGGGCAAAGTTGTGCACACTAAAATATCAAATCAAGGTGCTTGGTTTTAAAGTAAATGTTTTT
CTAAAGAAAGCTGTGTTCTTCTGTTGACCCAGACGAATAGGGCACAGCCCTGTAAGTGCACGTGCCTTCTGTCA
TGGAATGAAATAAATTATTACGAGAAAGGGAAAAAAAAAAAAAAAAAAAA

916/2777
FIGURE 815

MÄSPDPPATSYAPSDVPSGVALFLTIPFAFFLPELIFGFLVWTMVAATHIVYPLLQGWVMYVSLTSFLISLMFLL
SYLFGFYKRFESWRVLDSDLYHGTTGILYMSAAVLQVHATIVSEKLLDPRIYYINSAASFFAFIATLLYILHAFSI
YYH

917/2777
FIGURE 816

AGTGGAGTGGGACAGGTATATAAAGGAAGTACAGGGCCTGGGGAAGAGGCCCTGTCTAGGTAGCTGGCACCAGGA
GCCGTGGGCAAGGGAAGAGGCCACACCCTGCCCTGCTCTGCTGCAGCCAGAATGGGTGTGAAGGCGTCTCAAACA
GGCTTTGTGGTCCTGGTGTCTGCCAGTGTCTGCTCTGCATACAACTGGTCTGCTACTACACCAGCTGGTCCCAG
TACCGGGAAGGCGATGGGAGCTGCTTCCCAGATGCCCTTGACCGCTTCCTCTGTACCCACATCATCTACAGCTTT
GCCAATATAAGCAACGATCACATCGACACCTGGGAGTGGGAATGATGTGACGCTCTACGGCATGCTCAACACACTC
AAGAACAGGAACCCCAACCTGAAGACTCTCTTGTCTGTGCGAGGATGGAACCTTTGGGTCTCAAAGATTTTCCAAG
ATAGCCTCCAACACCCAGAGTCGCCGGACTTTTCATCAAGTCAGTACCGCCATTTCCTGCGCACCCATGGCTTTGAT
GGGCTGGACCTTGCTGGCTCTACCCCTGGACGGAGAGACAAACAGCATTTCACCACCCTAATCAAGGAAATGAAG
GCCGAATTTATAAAGGAAGCCAGCCAGGGAAGCAAGCAGCTCCTGCTCAGCGCAGCACTGTCTGCGGGGAAGGTC
ACCATTGACAGCAGCTATGACATTGCCAAGATATCCCAACACCTGGATTTTCATTAGCATCATGACCTACGATTTT
CATGGAGCCTGGCGTGGGACCACAGGCCATCACAGTCCCTGTTCCGAGGTCAGGAGGATGCAAGTCCTGACAGA
TTCAGCAACACTGACTATGCTGTGGGGTACATGTTGAGGCTGGGGGCTCCTGCCAGTAAGCTGGTGATGGGCATC
CCCACCTTCGGGAGGAGCTTCACTCTGGCTTCTTCTGAGACTGGTGTTGGAGCCCCAATCTCAGGACCGGAATT
CCAGGCCGGTTTACCAAGGAGGCAGGGACCCTTGCTTACTATGAGATCTGTGACTTCCTCCGCGGAGCCACAGTC
CATAGAACCCTCGGCCAGCAGGTCCCCATGCCACCAAGGGCAACCAGTGGGTAGGATACGACGACCAGGAAAGC
GTCAAAGCAAGGTGCAGTACCTGAAGGATAGGCAGCTGGCAGGCGCCATGGTATGGGCCCTGGACCTGGATGAC
TTCCAGGGCTCCTTCTGCGGCCAGGATCTGCGCTTCCCTCTCACCATGCCATCAAGGATGCACTCGCTGCAACG
TAGCCCTCTGTTCTGCACACAGCACGGGGGCCAAGGATGCCCCGTCCCCCTCTGGCTCCAGCTGGCCGGGAGCCT
GATCACCTGCCCTGCTGAGTCCCAGGCTGAGCCTCAGTCTCCCTCCCTTGGGGCCTATGCAGAGGTCCACAACAC
ACAGATTTGAGCTCAGCCCTGGTGGGCAGAGAGGTAGGGATGGGGCTGTGGGGATAGTGAGGCATCGCAATGTAA
GACTCGGGATTAGTACACACTTGTTGATGATTAATGGAAATGTTTACAGATCCCCAAGCCTGGCAAGGGAATTC
TTCAACTCCCTGCCCCCTAGCCCTCCTTATCAAAGGACACCATTTTGGCAAGCTCTATCACCAGGAGCCAAACA
TCCTACAAGACACAGTGACCATACTAATTATACCCCTGCAAAGCCAGCTTGAAACCTTCACTTAGGAACGTAAT
CGTGTCCCCTATCCTACTTCCCCTTCCTAATTCACAGCTGCTCAATAAAGTACAAGAGTTTAAACAGTGTGTTGG
CGCTTTGCTTTGGTCTATCTTTGAGCGCCCACTAGACCCACTGGACTCACCTCCCCCATCTCTTCTGGGTTCCCT
CCTCTGAGCCTTGGGACCCCTGAGCTTGACAGAGATGAAGGCCGCCATGTT

918/2777
FIGURE 817

MGVKASQTGFVVLVLLQCCSAYKLVCYYTSWSQYREGDGSCFPDALDRFLCTHIIYSFANISNDHIDTWEWNDVT
LYGMLNTLKNRNP NLKTLLSVGGWNFGSQRF SKIASNTQSRRTFIKSVPPFLRTHGFDGLDLAWLYPGRRDKQHF
TTLIKEMKAEFIKEAQPGKKQLLLSAALSAGKVTIDSSYDIAKISQHLDFISIMTYDFHGAWRGTTGHHSP LFRG
QEDASPD RFSNTDYAVGYMLRLGAPASKLVMGIPTFGRSFTLASSETGVGAPISGPGIPGRFTKEAGTLAYYEIC
DFLRGATVHRTL GQQVPYATKGNQWVG YDDQESVKSKVQYLKDRQLAGAMVWALDLDDFQGSFCGQDLRFPLTNA
IKDALAAT

919/2777
FIGURE 818

CAACCTGCATAGTAACGAAACCAAACGGCTGGTGTGATTGACCGATGGGAGCTTCTCCAGGCCCAGGCATTGAGC
AAGGAGTTGAGGATGAAGCAGAACCTCCAGAAGTGGCAGCAGTTTAACTCAGACTTGAACAGCATCTGGGCCTGG
CTGGGGGACACGGAGGAGGAGTTGGAACAGCTCCAGCGTCTGGAACTCAGCACTGACATCCAGACCATCGAGCTC
CAGATCAAAAAGCTCAAGGAGCTCCAGAAAGCTGTGGACCACCGCAAAGCCATCATCCTCTCCATCAATCTCTGC
AGCCCTGAGTTCACCCAGGCTGACAGCAAGGAGAGCCGGGACCTGCAGGATCGCTTGTGCGAGATGAATGGGCGC
TGGGACCGAGTGTGCTCTCTGCTGGAGGAGTGGCGGGGCCTGCTGCAGGATGCCCTGATGCAGTGCCAGGGTTTC
CATGAAATGAGCCATGGTTTGCTTCTTATGCTGGAGAACATTGACAGAAGGAAAAATGAAATTGTCCCTATTGAT
TCTAACCTTGATGCAGAGATACTTCAGGACCATCACAAACAGCTTATGCAAATAAAGCATGAGCTGTTGGAATCC
CAACTCAGAGTAGCCTCTTTGCAAGACATGTCTTGCCAACTACTGGTGAATGCTGAAGGAACAGACTGTTTAGAA
GCCAAAGAAAAAGTCCATGTTATTGGAATCGGCTCAAACCTTCTCTTGAAGGAGGTGAGTCGTCATATCAAGGAA
CTGGAGAAGTTATTAGACGTGTCAAGTAGTCAGCAGGATTTGTCTTCCCTGGTCTTCTGCTGATGAACTGGACACC
TCAGGGTCTGTGAGTCCACATCAGGAAGGAGCACCCCAAACAGACAGAAAACGCCACGAGGCAAGTGTAGTCTC
TCACAGCCTGGACCCTCTGTGTCAGCAGTCCACATAGCAGGTCCACAAAAGGTGGCTCCGATTCCCTCCCTTTCTGAG
CCAGGGCCAGGTGCGTCCGGCCGCGGCTTCCCTGTTGAGAGTCCCTCCGAGCAGCTCTTCCCCTTCAGCTTCTCCTG
CTCCTCCTCATCGGGCTTGCCCTGCCTTGTACCAATGTCAGAGGAAGACTACAGCTGTGCCCTCTCCAACAACCTT
GCCCGGTCATCCACCCCATGCTCAGATACACGAATGGCCCTCCTCCACTCTGAACTAAGCAGATGCCATCTGCAG
AAGTGTCTGGTAGCATAAGGAGGATCGGGTCATAAGCAATCCCAAACCTACCAACAAGAGGACCTTGATCTTGGCGA
AAGCCATCGGTGTGGCAGCTTTAGCCCTCCTCCAGATCACATGTGTGCAAATTATGGCTTCAGAGGGTGGAAGAT
AAACAGTGACGGGGGAACAAACAGACAACAAGAAGGTTTGGGAAGAAATCTGGTTTGAGACTCTGAACCTTAGCAC
TAAGGAGATTGAGTAAGGACCTCCAAAGTCCCCGGACTCATGAATTCTGGGCCCTTGGCATTTCGTGTGCACAGC
CAAGGACTTCAGTAGACCATCTGGGCAGCTTTCCCATGGTGTGCTCCAACCATCAGATAAATGACCCTCCCCAA
GCACCATGTGAGTGTGTAACAATCTACCAACCAACCAGTGTGTAAGAGATTTTAGAACCTTGTAACATACAATTT
TTAAGAGCTTATATGGCAGCTTCCTTTTACCTTGTTTTCTTTGGGGCATGATGTTTTAACCTTTTGCTTTAGA
AGCACAAGCTGTAAATCTAAAAGGCACTTTTTTTTAGAGGTATAAGAAAACTAGATGTAATAAATAAGATCATG
GAAGGCTTTATGTGAAAAAAGTTGAATGTTATAGTAAAAA

920/2777
FIGURE 819

MKQNLQKWQQFN¹NSDLNSIWAWLGDTEEELEQLQRLELSTDIQTIELQIKKLKELQKAVDHRKAIILSINLCSPEF
TQADSKESRD²LQDRLSQMNGRWDRVCSLLEEW³RGLLDALMQCGFHEMSHG⁴LLMLLENIDRRKNEIVPIDSNLD
AEILQDHHKQLMQIKHELLESQ⁵LRVASLQDMSCQLLVNAEGTDCLEAKEKVHVIGNRLKLLKEVSRHIKELEKL
LDVSSSQ⁶QDLSSWSSADELDTSGSVSPTSGRSTPNRQKTPRGKCSLSQPGPSVSSPHSRSTKGGSDSSLSEPGPG
RSGRGFLFRVLR⁷AALPLQLLLLLLLIGLACLVPMSEEDYSCALSNNFARSSTPCSDTRMALLHSELSRCHLQKCW

921/2777
FIGURE 820

GTTTTGAAAGTTGATGGAGCGAACTGCTTTTCCAAAGACTCTTTTGAAAACTTTTTAAGTAGGCCATTCTGACT
TTAACATTTCTCTTTGTCTTAACATTAGACAAAAAGTAACCTTCCTGAAGAGGACATGTGATTGGAAGTTGTCAA
TTGTTGAAGCATTGGTAACTCCAGTCTCTAACGTTTTAGAAAATCATAACAAGCGGTTCTCTACCCTGTAAAGGT
GAACTACTGAGTTCCTTCATTATGCTCTGATGGAGATTATGATTACCTCATCAAGTTTTTAGCTTTGGGAGACTCTG
GTGTAGGGAAGACCAGTGTACTTTACCAATATACAGATGGTAAATTTAACTCCAAATTTATCACAACAGTGGGCA
TTGATTTTCAGGGAAAAAAGAGTGGTGTACAGAGCCAGTGGGCCGGATGGAGCCACTGGCAGAGGCCAGAGAATCC
ACCTGCAGTTATGGGACACAGCAGGGCAGGAGAGGTTTTCTGTAGCTTAACGACAGCGTTCTTCAGAGATGCTATGG
GTTTTCTTCTACTTTTTTGATCTGACAAATGAGCAAAGTTTTCTCAATGTCAGAACTGGATAAGCCAGCTACAGA
TGCAATGCATATTGTGAAAACCCAGATATAGTGTGTGTGGAAACAAGAGTGATCTGGAGGACCAGAGAGTAGTGA
AAGAGGAGGAAGCCATAGCACTCGCAGAGAAATATGGAATCCCTTACTTTGAACTAGTGCTGCCAATGGGACAA
ACATAAGCCAAGCAATTGAGATGCTTCTGGACCTGATAATGAAGCGAATGGAACGGTGTGTGGACAAGTCTGGA
TTCCTGAAGGAGTGGTGCATCAAAATGGTCATGCCTCTACGGATCAGTTAAGTGAAGAAAAGGAGAAAAGGGCAT
GTGGCTGTGAGAGAAGTCAAGTAAGTGACATAGTAGTTTCAGGTGGCCCATGCCTGGGATCTTCTCTATGATTGATA
CATGGCACAGTGAGAGATTAATGGGCATTGTGTACAAATTGCTTCTCACCATCCCCATTAGACCTACGAATAAAG
CATCCGGTTCTAAAATTAATTTGTTGCAGCTTTGTAAATATTTCTTTAAGATTACGCCTGAGAGTTAGGAGAAAT
ATTTACAGAGCCAAAAGTGCCTTATACAACCTTAGCCTATTATAGTAAATCATTCAAGGATTGAGAATTTTGCAGT
CACAGAAGAGTGTATTTATTATGTAGAATGAATGAGGGTACTGTCACCTGCCTTAATGTAGGTAGGCCAGAGTC
TTACATTTAAGATCTTACATGCAGTTATAAAACCGCCACAGTCTTCAATCCAGATTTGAAGACTCATGCCATAGG
TGACATTCTAAAATACCATTAAAGCCACTTAAATGTTAAATAAGAATATACATGCACATCAGCTCAATGTCTTTG
AGTATTAATTTTATGTAAGCATTCTATTTAACATGAATATAGGACAAATCATGGCTATATCTATAGACCTTGGAT
AAACTGGATTGACCAATTATACACTCACGGTGACTTTTTTATTGGTGGGAAGGGGATTGGGGTGGGGCAGGCTGG
CTTAATGTAATATGAGCAACCAAAGTGGGACTTCTGTCTCCCCGCTATATTCCCATTGCTCTGAATGGTTGATTG
AAGGGTCAGGGAAGTAGATTTTATGGCTTTAGTTCACCTGTGATTGTACATTTTACTTTGGCCTATGTGCTGGCCG
CACCTGAACATAGCTGGTGTCTATGCCGAGTTATTTGTGATGAGTAAATATTTAGTTTTCTTTTTCTTCATATTTA
TAATGTTGATCTGGCATCCTCAGGCTGCAGCTTTATTAGCTTATAAATTACTCATCTCTGTCTTTACCAGCAGGC
TCTGTATTGTTGATATTTGCAACTTGTTTTGCTTTTCCATTGGTGGAATTGAAATAATTAGTTTTTAATTACATA
AGATGCCTGTTTGCTATTTGGTGGAAAGATAGATGTTTCATATTGAAGCAGTCACATTTGTACTGTAGTTCAATAAA
AGAAAAATGAAGTATTCTGTAGCCTATATTTTTTCATAGAGCTCATGAGCATTTACTGTACTTGCTGGGTCTTGCC
AAGATCATTTATTCCGCTGCATTGCCAAAGTGTCTTCATACCAAATTAAGGTGGTTTTAATATATGTTTCATGG
AAGTTGTTTATAAAATTCAAAGGTATTTTCATTTAGGTGAAAAGTCTTATTTATTAAAGTGGTTTGAATAAAGTAG
ATCAAAACTTCCAGAGATCTTAATGGCTATATAGGAAGAAATATCACTCACCATAATTTAAATAAAGAATAAAAA
TACATGTATTTTATGGTGGCAAAATGTTTGGTAGAACTGTAATTAGAAAAATACAAGTATATTTGCGTGATGGTTA
CACTAGAAGCCCAGACTTTACGACTACACAATATATTTCATGTATCTAACTGTACTTGTACCCCCCTAAATTTATT
TTTTAAAAAAAAAAAAAAAAAAAA

922/2777
FIGURE 821

MSDGDYDYLIKFLALGDSGVGKTSVLYQYTDGKFNSKFITTVGIDFREKRVVYRASGPDGATGRGQRIHLQLWDT
AGQERFRSLTTAFFRDAMGFLLLFDLTNEQSFLNVRNWISQLQMHAYCENPDIVLCGNKSDLEDQRVVKEEEAIA
LAEKYGIPYFETSAANGTNISQAIEMLLDLIMKRMECVDKSWIPEGVVRNNGHASTDQLSEEKEKGACGC

923/2777
FIGURE 822

ATCGATGCCCGCCCCGCCCCACAGCCAACCTCCCGGGCACCGTTGCCCGCCCCGGGGCCCGCTACCGGCCCAGG
CCCCGCTCGCGAGTCCTCCTCCCCGGGTGCCTGCCCCGAGCCCGCTCGGCCCAGAGGGTGGGCGCGGGGCTGCC
TCTACCGGCTGGCGGCTGTAACCTCAGCGACCTTGCGCCGAAGGCTCTAGCAAGGACCCACCGACCCAGCCGCGG
CGGCGGCGGCGCGGACTTTGCCCGGTGTGTGGGGCGGAGCGGACTGCGTGTCCGCGGACGGGCAGCGAAGATGTT
AGCCTTCGCTGCCAGGACCGTGGTGAAGCCTCTGGGCTTCCTGAAGCCCTTCTCCTTGATGAAGGCTTCCAGCCG
CTTCAAGGCACACCAGGATGCACTGCCACGGCTGCCCCGTGCCCCCTCTCCAGCAGTCCCTGGACCACTACCTGAA
GGCGCTGCAGCCCATCGTGAGTGAGGAGGAGTGGGCCCCACACCAAGCAGCTGGTGGATGAGTTTCAGGCCTCAGG
AGGTGTAGGGGAGCGCCTGCAGAAGGGGCTGGAGCGTCGGGCCAGGAAGACGGAGAAGTGGCTGTCTGAGTGGTG
GCTCAAGACCGCCTACCTCCAGTACCGCCAGCCTGTGGTCACTACTCGAGCCCAGGCGTGATGCTACCCAAGCA
GGACTTCGTGGACCTGCAGGGTCAGCTCCGATTGCTGCCAACTCATTGAGGGTGTGTTGGATTTCAGGTCAT
GATTGACAACGAGACCTGCCCCGTGGAGTACCTGGGGGGGAAGCCACTGTGCATGAACCAGTACTATCAGATCTT
GTCTCCTGCCGAGTGCCGGGCCCCAAGCAGGACACAGTCAGCAACTTCAGCAAGACCAAGAAGCCTCCACGCA
CATCACCGTGGTACACAACCTACCAGTTTTTTGAGCTGGATGTGTACCACAGTGACGGGACACCCCTCACTGCGGA
TCAGATCTTTGTGCAGCTGGAGAAGATCTGGAATCATCCCTACAGACCAACAAGGAGCCTGTGGGCATCCTCAC
CTCCAACCACCGCAACTCCTGGGCCAAGGCATACAACCCCTCATCAAAGACAAGGTGAACCGGGATTCCGTGCG
CTCCATCCAGAAGAGCATCTTACCGTGTGCCTAGATGCAACCATGCCCAGGGTCTCAGAAGACGTGTACCGCAG
CCACGTGGCAGGCCAGATGCTGCATGGGGGCGGCAGCAGGCTCAACAGCGGCAACCGCTGTTTCGACAAGACGCT
GCAGTTATCGTGGCAGAAGATGGCTCCTGTGGGCTTGTGTACGAGCATGCTGCAGCGGAGGGGCCCCCTATTGT
CACCTTCTGGACTATGTATCGAGTACACGAAGAAACCCGAGCTTGTGCGGTCTCCCATGGTGCCCTGCCCAT
GCCAAGAAGCTGCGGTTCAACATCACCCCCGAGATCAAGAGCGACATCGAGAAGGCCAAGCAGAACCTCAGCAT
CATGATCCAGGACCTGGATATCACCGTGATGGTGTTCACCATTTTGGAAAAGACTTCCCCAAGTCGGAGAAGCT
AAGCCCAGATGCCTTCATCCAGATGGCTTTGCAGCTGGCCTACTACAGGATCTACGGACAGGCATGTGCCACCTA
TGAAAGTGCCCTCCCTGCGCATGTTTCACTGGGCGCACCAGACCATCCGCTCGGCTTCCATGGACTCACTCAC
CTTTGTCAAGGCCATGGATGACTCCAGCGTCACGGAGCACCAGAAGGTGGAGCTGCTGCGGAAGGCCGTGCAGGC
CCACCGAGGCTACACCGACCGGGCCATCCGCGGGGAGGCCTTTGATCGACACCTGCTGGGCCTGAAGCTGCAGGC
CATCGAGGACCTGGTGAGCATGCCCCGACATCTTCATGGACACCTCCTACGCCATCGCCATGCACTTCCACCTCTC
CACCAGCCAGGTCCCTGCCAAGACAGACTGTGTATGTTCTTCGGGCCCCGTGGTCCCCGACGGCTACGGTGTCTG
CTATAACCCCATGGAGGCCACATCAACTTCTCCCTGTGCGCCTACAACAGCTGCGCGGAGACCAACGCCGCCCG
CCTGGCGCATTAACCTGGAGAAGGCGCTCCTGGACATGCGTGCCCTGCTGCAGAGCCACCCCCGGGCCAAGCTCTG
AGCCCCTAGGACTCAGGCCTGCCAATGCCACAGCCAAGCCCACCCTGGGATGGGGCACCCACAGGGCTCAGCTC
CTTGGTTCCCTCTTCCCTTGGTTCCCTCTTCCCTGGTCCCCCAAATCTACTGAGCCACGGACCGCATCCTCCAGG
GGGCTGCAGGCCCCAGCCAAGTGCCCTTCCGTGGGTCTATCCAGCACCTGCCAGGGCCCCGACCTGGGGCTGAGTG
CAGAGGCTGAGCAGGACGTTAGGCCCCGGGCCCCCTGGCACGTCTCCACCGGTGCCTCCTCTGGGGGAAGGGAACCA
GCCCTCCAGAGCAGGAGACTGGCAAGAGCTCTTTGTCTCACCAGCTCAGCCCCGGCCACTCCCTGCCAACTCCAT
GACCAGGCCACCATCTGTACCTTGCTTCCCAAACCTCCAGGACCTGGAGACAGGATTGTCTGGGGCCGAGGGGCC
AGGGTGTGAGGTTTACCTCCGTTGCGGCTGTGCTCCTGTGGATAACATTGCTAGCGAGCCGCTCTGTTCCAC
TCAGCTTGGTTCCCTGCCCCCGCCCTGCTGTATGATATTAATGTGGAAGGTCAATAAAGGGGAATTGTGTTGG
TGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

924/2777
FIGURE 823

MLAFAARTVVKPLGFLKPFSLMKASSRFKAHQDALPRLPVPPLQQSLDHYLKALQPIVSEEWAHTKQLVDEFQA
SGGVGERLQKGLERRARKTENWLSEWWLKTAYLQYRQPVVIYSSPGVMLPKQDFVDLQGQLRFAAKLIEGVLDLK
VMIDNETLPVEYLGKPLCMNQYYQILSSCRVPGPKQDTSNFSKTKKPPTHITVVHNYQFFELDVYHSDGTPLT
ADQIFVQLEKIWNSSLQTNKEPVGILTSNHRNSWAKAYNTLIKDKVNRDSVRSIQKKPELVRSMPVPLPMPKKLR
FNITPEIKSDIEKAKQNLSIMIQLDITVMVFHHFGKDFPKSEKLSPDFTQMALQLAYYRIYQQACATYESASL
RMFHLGRDITIRSASMDSLTFVKAMDDSSVTEHQKVELLRKAVQAHRGYTDRAIRGEAFDRHLLGLKLQAIEDLV
SMPDIFMDTSYAIAMHFHLSTSQVPAKTDCVMFFGPVVPDGYGVCYNPMEAHINFSLSAYNSCAETNAARLAHYL
EKALLDMRALLQSHPRAKL

925/2777
FIGURE 824

TAATCCTTTAACCTTTTCCTTGTGTCAGGAATGAGGCAGATGAGCTCCGTAAAGCTCTGGACAACCTTGCAAGACAA
ATGATCATGAAAGACAAAACTGGCACGATAAAGGCCAGCAGTACAGAACTGGTTTCTGAAAGAGTTTCCTCGG
TTGAAAAGTAAGCTTGAGGATAACATAAGAAGGCTCCGTGCCCTTGACAGATGGGGTTCAGAAGGTCCACAAAGGC
ACCACCATCGCCAATGTGGTGTCTGGCTCTCTCAGCATTTCCTCTGGCATCCTGACCCTCGTCGGCATGGGTCTG
GCACCCTTCACAGAGGGAGGCAGCCTTGACTCTTGGAACCTGGGATGGAGTTGGGAATCACAGCCGCTTTGACC
GGGATTACCAGCAGTACCATAGACTACGGAAAGAAGTGGTGGACACAAGCCCCAAGCCCACGACCTGGTCATCAAA
AGCCTTGACAAATTGAAGGAGGTGAAGGAGTTTTTGGGTGAGAACATATCCAACCTTTCTTTTCCTTAGCTGGCAAT
ACTTACCAACTCACACGAGGCATTGGGAAGGACATCCGTGCCCTCAGACGAGCCAGAGCCAATCTTCAGTCAGTA
CCGCATGCCTCAGCCTCACGCCCCCGGGTCACTGAGCCAATCTCAGCTGAAAGCGGTGAACAGGTGGAGAGGGTT
AATGAACCCAGCATCCTGGAAATGAGCAGAGGAGTCAAGCTCACGGATGTGGCCCCGTGAAGCTTCTTTCTTGTG
CTGGATGTAGTCTACCTCGTGTACGAATCAAAGCACTTACATGAGGGGGCAAAGTCAGAGACAGCTGAGGAGCTG
AAGAAGGTGGCTCAGGAGCTGGAGGAGAAGCTAAACATTCTCAACAATAATTATAAGATTCTGCAGGCGGACCAA
GAACTGTGACCACAGGGCAGGGCAGCCACCAGGAGAGATATGCCTGGCAGGGGCCAGGACAAAATGCAAACTTTT
TTTTTTTTCTGAGACAGAGTCTTGCTCTGTGCGCAAGTTGGAGTGCAATGGTGCGATCTCAGCTCACTGCAAGCT
CTGCCTCCCGTGTTCAAGCGATTCTCCTGCCTTGGCCTCCCAAGTAGCTGGGACTACAGGCGCCTACCACCATGC
CCAGCTAATTTTTGTATTTTAATAGAGATGGGGTTTACCATGTTGGCCAGGATGGTCTCGATCTCCTGACCTC
TTGATCTGCCCCACCTTGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCATCGCTTTTGACCCAAATGCAAAC
ATTTTATTAGGGGGATAAAGAGGGTGAGGTAAAGTTTATGGAACAGTGTAGGGACTTTGGCATTTCATAGC
TGAGCACAGCAGGGGAGGGGTTAATGCAGATGGCAGTGCAGCAAGGAGAAGGCAGGAACATTGGAGCCTGCAATA
AGGGAAAAATGGGAACCTGGAGAGTGTGGGGAATGGGAAGAAGCAGTTTACTTTAGACTAAAGAATATATTGGGGG
GCCGGGTGTAGTGGCTCATGCCTGTAATCCGAGCACTTTGGGAGGCCAAGGCGGGCGGATCACGAGGTCAGGAGA
TCAAGACCATCCTGGCTAACACAGTGAACCCCGTCTCTACTAAAAATACAAAAAATTAGCCGGGCATGGTGCGG
GCGCTGTAGTTCCAGCTAACTGGGCGGCTGAGGCAGGAGAATGGCGTGAACTGGGAGGTGGAGCTTGCAGTGA
GCCGAGATATCGCCACTGCACTCCAGCCTGGGTGACAGAGCGAGACTCCATCTCAAAAAAAAAAAAAAAAAAGAAT
ATATTGACGGAAGAATAGAGAGGAGGCTTGAAGGAACCAGCAATGAGAAGGCCAGGAAAAGAAAGAGCTGAAAAT
GGAGAAAGCCCCAAGAGTTAGAACAGTTGGATACAGGAGAAGAAACAGCGGCTCCACTACAGACCCAGCCCCAGGT
TCAATGTCTCCGAAGAATGAAGTCTTTCCCTGGTGATGGTCCCCTGCCCTGTCTTTCCAGCATCCACTCTCCCT
TGTCTCTGGGGGCATATCTCAGTCAGGCAGCGGCTTCTGTATGATGGTTCGTTGGGGTGGTTGTCATGTGATGG
GTCCCTCCAGGTTACTAAAGGGTGCATGTCCCCTGCTTGAACACTGAAGGGCAGGTGGTGGGCCATGGCCATGGT
CCCCAGCTGAGGAGCAGGTGTCCCTGAGAACCCAACTTCCCAGAGAGTATGTGAGAACCAACCAATGAAAACAG
TCCCATCGCTCTTACCCGGTAAGTAAACAGTCAGAAAATTAGCATGAAAGCAGTTTAGCATTTGGGAGGAAGCTCA
GATCTCTAGAGCTGTCTTGTGCGCGCCAGGATTGACCTGTGTGTAAGTCCCAATAAACTCACCTACTCA

926/2777
FIGURE 825

TCCCAGCCTTCCCATCCCCCACCAGAAAGCAAATCATTCAACGACCCCCGACCCTCCGACGGCAGGAGCCCCCG
ACCTCCCAGGCGGACCGCCCTTCCCTCCCCGCGCGGGTTCCGGGCCCCGCGAGAGGGCGCGACGACAGCCGAGGC
CATGGAGGTGACGGCGGACCAGCCGCGCTGGGTGAGCCACCACCACCCCGCCGTGCTCAACGGGCAGCACCCGGA
CACGCACCACCCGGGCCTCAGCCACTCCTACATGGACGCGGCGCAGTACCCGCTGCCGGAGGAGGTGGATGTGCT
TTTTAACATCGACGGTCAAGGCAACCACGTCCCGCCCTACTACGGAAACTCGGTGAGGGCCACGGTGCAGAGGTA
CCCTCCGACCCACCACGGGAGCCAGGTGTGCCGCCGCCCTCTGCTTCATGGATCCCTACCCTGGCTGGACGGCGG
CAAAGCCCTGGGCAGCCACCACACCGCCTCCCCCTGGAATCTCAGCCCCCTTCTCCAAGACGTCCATCCACCACGG
CTCCCCGGGGCCCCCTCTCCGTCTACCCCCGGCCCTCGTCTCTCTCTTGTGCGGGGGGCCACGCCAGCCCGCACCT
CTTACCTTCCCGCCACCCCGCCGAAGGACGTCTCCCGGACCCATCGCTGTCCACCCCAGGCTCGGCCGGGCTC
GGCCCGGCAGGACGAGAAAGAGTGCCTCAAGTACCAGGTGCCCTGCCGACAGCATGAAGCTGGAGTCGTCCCA
CTCCCGTGGCAGCATGACCGCCCTGGGTGGAGCCTCCTCGTCGACCCACCACCCCATCACCACCTACCCGCCCTA
CGTGCCCGAGTACAGCTCCGGACTCTTCCCCCCCAGCAGCCTGCTGGGCGGCTCCCCCACCAGGCTTCGGATGCAA
GTCCAGGCCCAAGGCCCGGTCCAGCACAGGCAGGGAGTGTGTGAAGTGTGGGGCAACCTCGACCCCACTGTGGCG
GCGAGATGGCACGGGACACTACCTGTGCAACGCCTGCGGGCTCTATCAGAAAATGAACGGACAGAACCGGCCCT
CATTAGCCCAAGCGAAGGCTGTCTGCAGCCAGGAGAGCAGGGACGTCTGTGCGAACTGTCAGACCACCACAAC
CACACTCTGGAGGAGGAATGCCAATGGGGACCCCTGTCTGCAATGCCTGTGGGCTCTACTACAAGCTTCACAATAT
TAACAGACCCCTGACTATGAAGAAGGAAGGCATCCAGACCAGAAACCGAAAAATGTCTAGCAAATCCAAAAAGT
CAAAAAAGTGCATGACTCACTGGAGGACTTCCCAAGAACAGCTCGTTTAACCCGGCCGCCCTCTCCAGACACAT
GTCCCTCCCTGAGCCACATCTCGCCCTTCAGCCACTCCAGCCACATGCTGACCACGCCACGCCGATGCACCCGCC
ATCCAGCCTGTCTTTGGACCACACCACCCCTCCAGCATGGTCACCGCCATGGGTTAGAGCCCTGCTCGATGCTC
ACAGGGCCCCCAGCGAGAGTCCCTGCAGTCCCTTTCGACTTGCAATTTTGCAGGAGCAGTATCATGAAGCCTAAA
CGCGATGGATATATGTTTTTGAAGGCAGAAAGCAAATATGTTTGCCACTTTGCAAAGGAGCTCACTGTGGTGT
CTGTGTTCCAACCACTGAATCTGGACCCCATCTGTGAATAAGCCATTCTGACTCATATCCCTATTTAACAGGGT
CTCTAGTGCTGTGAAAAAAAAAAATCCTGAACATTGCATATAACTTATATTGTAAGAAATACTGTACAATGACTT
TATTGCATCTGGGTAGCTGTAAGGCATGAAGGATGCCAAGAAGTTTAAGGAATATGGGAGAAATAGTGTGGAAT
TAAGAAGAACTAGGTCTGATATTCAAATGGACAACTGCCAGTTTTGTTTCCTTTCACTGGCCACAGTTGTTTG
ATGCATTAAAGAAAATAAAAAAAAAAGAAAAAGAGAAAAGAAAAAAAGAAAAAGTTGTAGGCGAATCATTTG
TTCAAAGCTGTTGGCCCTCTGCAAAGGAAATACAGTTCTGGGCAATCAGTGTTACCGTTCACCAGTTGCCATTG
AGGGTTTCAGAGAGCCTTTTTCTAGGCCTACATGCTTTGTGAACAAGTCCCTGTAATTGTTGTTTGTATGTATAA
TTCAAAGCACAAAATAAGAAAAGATGTAGATTTATTTTCATCATATTATACAGACCGAACTGTTGTATAAAATTTA
TTTACTGCTAGTCTTAAGAACTGCTTTCTTTGTTTGTGTTTCAATATTTTCTTCTCTCAATTTTTCGGTT
GAATAAACTAGATTACATTGAGTTGGCAAAAAAAAAAAAA

927/2777
FIGURE 826

MEVTADQPRWVSHHHPAVLNGQHPDTHHPGLSHSYMDAAQYPLPEEVDVLFNIDGQGNHVPPYYGNSVRATVQRY
PPTHGSGQVCRPPLLHGSLPWLDGGKALGSHHTASPWNLSPFSTSIHHGSPGPLSVYPPASSSSLSGGHASP
FTFPPTPPKDVSPDPSLSTPGSAGSARQDEKECLKYQVPLPDSMKLESSHSRGSMTALGGASSSTHHPITTYPPY
VPEYSSGLFPPSSLLGGSPTGFGCKSRPKARSSTGRECVNCGATSTPLWRRDGTGHYLCNACGLYHKMNGQNRPL
IKPKRRLSAARRAGTSCANCQTTTTTLWRRNANGDPVCNACGLYYKLHNINRPLTMKKEGIQTRNRKMSSKSKKC
KKVHDSLEDFPKNSSFNPAALSRHMSSLSHISPFSSHMLTTPTPMHPPSSLSFGPHHPSSMVTAMG

928/2777
FIGURE 827

ATGCACTCAAGCAGAGAAGAAATCCACAAAGACTCACAGTCTGCTGGTGGGCAGAGAAGACAGAAACGACATGAG
CACAGCAGGAAAAGTAATGAAATGCAAAGCAGCTGTGCTATGGGAGGTAAAGAAACCCCTTTTCCATTGAGGATGT
GGAGGTTGCACCTCCTAAGGCTTATGAAGTTCGCATTAAGATGGTGGCTGTAGGAATCTGTGCGACAGATGACCA
CGTGGTTAGTGGCAAACCTGGTGACCCCCCTTCCTGTGATTTTAGGCCATGAGGCAGCCGGCATCGTGGAGAGTGT
TGGAGAAGGGGTGACTACAGTCAAACCAGGTGATAAAGTCATCCCGCTCTTTACTCCTCAGTGTGGAATAATGCAG
AGTTTGTAAAAACCCGGAGAGCAACTACTGCTTGAAAAATGATCTAGGCAATCCCCGGGGGACCCTGCAGGATGG
CACCAGGAGGTTACCTGCAGGGGGAAGCCATTCACTTCCCTTGGCACCAGCACCTTCTCCAGTACACGGT
GGTGGATGAGAATGCAGTGGCCAAAATTGATGCAGCCTCGAAACTGGAGAAAGTCTGCCTCATTGGCTGTGGATT
CTCGACTGGTTATGGGTCTGCAGTTAACGTTGCCAAGGTCACCCAGGCTCTACCTGTGCTGTGTTTGGCCTGGG
AGGGGTCGGCTATCTGCTGTTATGGGCTGTAAAGCAGCTGGAGCAGCCAGAATCATTGCGGTGGACATCAACAA
GGACAAATTTGCAAAGGCCAAAGTGTGGGTGCCACTGAATGCATCAACCCTCAAGACTACAAGAAACCCATCCA
GGAAGTGCTAAAGGAAATGACTGATGGAGGTGTGGATTTTTCGTTTGAAGTCATCGGTGCGCTTGACACCATGAT
GGCTTCCCTGTTATGTTGTCATGAGGCATGTGGCACAAGCGTCATCGTAGGGGTACCTCCTGCTTCCCAGAACCT
CTCAATAAACCCCTATGCTGCTACTGACTGGACGCACCTGGAAGGGGGCTGTTTATGGTGGCTTTAAGAGTAAAGA
AGGTATCCCAAACTTGTGGCTGATTTTATGGCTAAGAAGTTTTCAGTGGATGCGTTAATAACCCATGTTTAC
TTTTGAAAAATAAATGAAGGATTTGACCTGCTTCACTCTGGGAAAAGTATCCGTACCGTCTGACGTTTGTAGG
CAATAGAGATGCCTTCCCTGTAGCAGTCTTCAGCCTCCTCTACCCTACGAGATCTGGAGCAACAGCTAGGAAAT
ATCATTAATTCAGTCTTTCAGAGATGTTATCAATAAATTACACATGGGGGCTTTCCAAAGAAATGGAAATTGATG
GGAAATTATTTTTCAGGAAAAATTTAAATTCAGTGAGAAGTAAATAAAGTGTTGAACATCAGCTGGGGAATTGA
AGCCAACAAACCTTCCCTTCTTAACCATTCTACTGTGTCACCTTTGCCATTGAGGAAAAATATTCTGTGACTTCT
TGCATTTTTTGGTATCTTCATAATCTTTAGTCATCGAATCCAGTGGAGGGGACCCTTTTACTTGCCCTGAACATA
CACATGCTGGGCCATTGTGATTGAAGTCTTCTAACTCTGTCTCAGTTTTTCACTGTGACATTTTCCCTTTTCTAA
TAAAAATGTACCAATCCCTGGGGTAAAAGCTAGGGTAAGGTAAAGGATAGACTCACATTTACAAGTAGTGAAGG
TCCAAGAGTTCTAAATACAGGAAATTTCTTAGGAACCTCAAATAAATGCCACATTTTACTACAGTAAATGGCA
GTGTTTTTATGACTTTTATACTATTTCTTTATGGTTCGATATACAATTGATTTTTTAAATAATAGCAGATTTCTT
GCTTCATATGACAAAGCCTCAATTACTAATTGTAAAACTGAACATTTCCAGAATCATGTTCAAAAAATCTGTA
ATTTTTGCTGATCGAAAGTGCTTCATTGACTAAACAGTATTAGTTTGTGGCTATAAATGATTATTTAGATGATGA
CTGAAATGTGTATAAAGTAATTTAAAGTAATATGGTGGCTTTAAGTGTAGAGATGGGATGGCAATGCTGTGAA
TGCAGAAATGTAAATTTGGTAACCTAAGAAATGGCACAACACCTTAAGCAATATATTTTCTAGTAGATATATATA
TACACATACATATATACACATATACAAATGTATATTTTGCAAAATTGTTTTCAATCTAGAACTTTTCTATTAAC
TACCATGTCTTAAATCAAGTCTATAATCCTAGCATTAGTTTAAATATTTTGAATATGTAAACACCTGTGTTAATG
CTTTGTTAATGCTTTTCCACTCTCATTGTGTTAATGCTTTCCACTCTCGGGAAGGATTTGCATTTTGAGCTTTA
TCTCTAAATGTGACATGCAAAGATTATCCTGGTAAAGGAGGTAGCTGTCTCCAAAAATGCTATTGTTGCAATAT
CTACATTCTATTTTCATATTATGAAAGACCTTAGACATAAAGTAAATAGTTTATCATT

929/2777
FIGURE 828

MSTAGKVMKCKAAVLWEVKKPFSIEDVEVAPPKAYEVRIKMVAVGICRTDDHVVSGLVTPLPVILGHEAAGIVE
SVGEGVTTVKPGDKVIPLFTTPQCGKCRVCKNPESNYCLKNDLGNPRGTLQDGTTRRFTCRGKPIHHFLGTSTFSQY
TVVDENAVAKIDAASKLEKVCLIGCGFSTGYGSVNVAKVTPGSTCAVFGLGGVGLSAVMGCKAAGAARI IAVDI
NKDKFAKAKVLGATECINPQDYKKPIQEVLKEMTDGGVDFSFEVIGRLDTMMASLLCCHEACGTSVIVGVPPASQ
NLSINPMLLLTGRTWKGA VYGGFKSKEGIPKLVA DFMAKKFSLDALITHVLPFEKINEGFDLLHSGKSIRTVLTF

930/2777
FIGURE 829A

CGCCCAGGAATGGCTTCGGCGGGCAGCGGCATGGAGGAGGTGCGCGTGTGGTGCTGACCCCCTTGAAGCTGGTC
GGGCTGGTGTGCATCTTCCCTGGCGCTGTGTCTGGACCTGGGGGCGGTGCTGAGCCCGGCCCTGGGTACAGCTGAC
CACCAGTACTACCTGTCGTTGTGGGAGTCTGCGCGAAACCCGCCAGCTTGGACATCTGGCACTGCGAGTCCACG
CTCAGCAGCGATTGGCAGATTGCTACTCTGGCTTTACTCCTGGGCGGCGCTGCCATCATTCTCATTGCATTCTG
GTGGGTTTGATTTCTATCTGCGTGGGATCTCGAAGGCGTTTCTATAGACCTGTTGCGGTGCTGCTTTTTGCAGCA
GTTGTTTTACAGGTTTGAGCCTGGTCCTTTACCCAATCAAGTTTCATTGAAACTGTGAGCTTGAAAATTTACCAT
GAGTTCAACTGGGGTTATGGCCTGGCCTGGGGTGCAACTATATTTTCGTTTGGGGGTGCCAICCTTTATTGCCTG
AACCCTAAGAATATGAAGACTACTACTAGAACCAATAGTCTCAAAGTAAAAACAACCACCACCATCCAACAAAA
GGATTACGTCTGCATCTTTTCTAACTTACTATTTTCTAAAACACTTGTGGAGCATCAAGCAGTTTGCTCAGTTGA
TTTAATCTTTTTTGCTTTTGGCTGTCAATATCATAACCAGCTTTTACATCCATTTTAGAAATCTGCACAAATTA
AGAGAGCTGATTAGACATAGGCAAATGCTGCAAACTTCCAATATGTTTCATATCGTTTTTCTTGACAAATGAAGGG
TCTATATGACAGCAACCATTGTGAGAACTAGTTGGAATGAGATTGCTCAATCTCCTATTGCCTGCAGGGGAG
CAGTTGGCATAAGCAACATTTAGAAGTTCCCTTGGCGTGACAAGGATTCCACTGTTAGAGCCCTTACCGCCTGCT
TATCCTACCCAATGACTACATTGGCTGTTGGTTATTTGCTTGAGTGAGCCCTTGAAAAATGAAGTGCCTTCAGC
ATCTAATGGGAGTTGTGAATGTAAGTGGTTAATGATACACATTCCACCTTCAGGAACACTCTTTTTAATGGGAGG
TTATGCTTTGGCAATCAGCGTCTCCCTGGGAAGAGAGTCAAGACTTGGAGACATGTGCTTCTCATTATGTGGTTA
GAAATTGGTGCCTCAGCCCTATCTAGACTGGGGAAAAATGAGGATCTCTGTTTTTCTGGGGCAAACAGAAAGA
AATCTGCATGAGTTGCTTTTGTACCCTTTAAATCATTGCCAAACATTGCAGCAAACAAGTGTGCGTATGTAACA
AGCTTCACTGTTTTTATAGAAGGTGAACCATTAGTATAAATGGTAATAAGTTGTTCCCTAACCTCCACATACAT
TTGCCTATCACACGTAAAATTAATATTTACTCTAGTGAAGTGGTTGAGCACTAACCTGTACACATTGTTAAGA
GGCTTAGATTGGTATTCTACTTATTTACCATACAAAAGTATGGTACCTTAAAGCTTTTGCTCTATGTTCTTTAC
TGTTTCACTGGAAGTGTCAATAGAGTTGCCTAAGAAATAAAATGAAATGGTGTAAATCTGAAAATTAATGATT
CTCTGTAAGCACTGTAGTTGAAAAGAGAGTAGCAATTAGGATGATCATTGTTGTGTAATAATCATTAAAAATAGAAG
GCTGCTATTTTTTGAAGTATTTTAAATGTCTTCATTTTTTTAAGAAAGGAATAGCGATAGATTTATATAAATAT
CTAAATGTCTCAGTAGAGGAGTAGAATTCATCTGGTTATCACCTGGTCCCTCTGAAGTTAACTGATGGGCTAACCG
ATTTGTGCACACACTTAGGATGGATTTATGTTAAGGGAATTACTTACTGACTGTTCAATGGAAGGAAGTATTAAT
AATAGGGAATAAGTTTGCAACTAATCTCATGCTGCAAACTTGTGTTAATTCTGTTTAAATATACAAATTTGGATAG
CTTAATTATAAACATATTTTTATATCAAATATACAGTTCTAATATAAAAGTTATAAATAATTATTTTTGTAAACA
AAGACACTAAAACAGTATGTTCTGGTTTTTGGCCCTCTTGCAAGAAAGCATTAGAAAAATTACTTTAAAAGTAG
CTATATGTTACTGTATTGCAAAATCTGTTAAGAGCAGGACCACATCGATAGTATTTAATAATTTGTTTTACCTCC
CAAAACACAGTTCTTCTTTTCTAGCTTGTCTTAAAGAAATGGTTGCCAAAAACAACAGCCAAAAAAAAAAAAACCTATT
TTATTATCCAAATGCTAGAAAACACACATGAATTTTCTATAAAATCACGAATATGAAGTACCAGGTTTAGTCTTA
CTTTAGCAATGATAGACAAAAGCGAATAAATACATCACAGACAGAAACCTTTATAAAAAATATATGATTCTATAAA
GAATCATTAGAAATTATGAGTGGAAATTCGCCAGAAAGATAGTATTATAGAGTCTTTTGAAGCAATTTTTTGAGA
AATAGTAAAATCTGGGGCAGAGTGTCTTGCAGTTAATTGCATATTGTCAGAGCAGCATGAGAAATATGATATTTG
GATAGGGATTTTCAGCAACTAAACATTCTCTGTTCTGAGATCTCTTTATTCTGAATAATGAAAGAATAGTACTTT
GGTGCTGACACCAATGAGGCACCTTCTCTTGGTCCTAGTAGAGGATGCAGTGTACTGTTAAACCAATATCATCACA
TCTCGAGTCTTATCAAGTTTTTCATTCTCTGTCAATATGACAAGCTCAAAGTGACAGAATATGTTATAGGTTGAAG
CACACATATTTGCAGTTTACTGAAAAGTAGATTCTTATGTGACTTTTTTCCCTTCTCAGCAAAGAGCCCTACAC
TAGATTTCTACCATCACTAATATTTGGAAGTATTTTATTACTAACAATCTCAGTACAACATGAAATTTGTTGCTT
CTCATCTAAAATACAATTTTGTCTATCAGAATAAACACAAGTGAAATTTTACCTACATTAACATTATGTCTTTG
CAGCTTTAGGTTTGTAGATGTGTTCTTAAGCATAATTTTTAGCCACAAACCCATTGTTAGATAGATATCTATGG
ATATAGATCTACATCTATAGATATAGATATACACACATATATATACTCACACACATATAGCATAAAATACTCAGC
AGGGCTAGTTATTCCGATTTCTTGCACAATATTTAGCTTTTTGTAAAGTTCAACATGTAAATTTTAAAGACATAA
ATATAGAGAGACTTATGTGTTGAATATAAATGATATATATGGATTAGCATGTACCTGTATATTATTAACATGC
AATGAAGTACTGGTAAGTGACGTCTAATTGTATGGCTAGCAATGTAATTTATTCAGACTGTATTTTTGTACAGA
GCAGTGCACCTAACCTATGCCTCTGTGTCTCTTAAATGCCTAAAGCTGTGCCTAGAAATTTTCTGTCTTAA
AAGTAAAATATACTTCATGCTGTTTATGCTATTAGTTTCTGTACTGCTATTCTATATTTATTATTTTTAAATATA

931/2777

FIGURE 829B

TGACATGTTTACTACTTAAACATGAATTCATGGTATCCTGGTTATTTTTTTTAAGTCATCTGGGGGAAAACCTGT
TTATCACTCCAGTGATTTTGAGTTTGCAGTTTCACAATCAGTTCTTCATTTCATGATTTTTGTAGTTGACATGAA
GTCATCTATGTGAAAAAATAAAAAATAAAAGTAAAAAAAAAAAAAAAAAAAAA

932/2777
FIGURE 830

MASAGSGMEEVRVSVLTPLKLVGLVCIFLALCLDLGAVLSPA WVTADHQYYLSLWESCRKPASLDIWHCESTLSS
DWQIATLALLLGGAAILIAFLVGLSICVGSRRRFYRPVAVMLFAAVVLQVCSLVLYPIKFIETVSLKIYHEFN
WGYGLAWGATIFSFGAILYCLNPKNYEDYY

933/2777
FIGURE 831

GTGGGAGGAGGCACCGGCCGCGCGGGAGGAGGTGCCGGCCGAGCACCGCAGACAGCGCCGGGAAGATGAGCA
CGGAAGGTGGTGGCCGTCGCTGCCAGGCACAAGTGTCCCGCCGCATCTCCTTCAGCGCGAGCCACCGATTGTACA
GTAAATTTCTAAGTGATGAAGAAAACCTGAAACTGTTTGGGAAATGCAACAATCCAAATGGCCATGGGCACAATT
ATAAAGTTGTGGTGACAGTACATGGAGAGATTGACCCTGCTACGGGAATGGTTATGAATCTGGCTGATCTCAAAA
AATATATGGAGGAGGCGATTATGCAGCCCCCTTGATCATAAGAATCTGGATATGGATGTGCCATACTTTGCAGATG
TGGTGAGCACGACTGAAAATGTAGCTGTTTATATCTGGGACAACCTCCAGAAAGTTCTTCCTGTAGGAGTTCTTT
ATAAAGTAAAAGTATACGAAACTGACAATAATATTGTGGTTTATAAAGGAGAAATAGCTATTGGGGTTAGCATTGC
ACAAAGCCCAGTTTCTTTCTGTGTTTGAAAAAGATTTTGATCCCCTTGGAATATTAAGAGGTCAACACGTGATTG
TTGTACGTACACATTGTGCTCTGGAGTGCCTATTTATTGAAATCATTGTAAGACCTGTTATAAATTTAAGTCTAT
TTAAACTAACTTGTAATATACATCCTGAAAATCATTAGAGAGTCTTTTATTTATAAATTAAAAATCACTTCA
TTTTACAAAATGTTTTGGTGTGGGATTATTTGAAAGCAAAAGAAATCTAATTTTGTCTCCATTACCTCATT
TTAGTATTAATTTTACTTGGTATAATATACATGGTTAAAATGCTTATGTGACTTCGAGTAGGTGAATCTTAAAG
AAATAAAATTCAAGTGACCAC

934/2777
FIGURE 832

MSTEGGGRRCAQVSRRISFSASHRLYSKFLSDEENLKLFGKCNNPNNGHGHNYKVVVTVHGEIDPATGMVMNLAD
LKKYMEEAIMQPLDHKNLMDVPYFADVSTTENVAVYIWDNLQKVLPGVLYKVKVYETDNNIVVYKGE

935/2777
FIGURE 833

GGCACGAGGGAGCAATGGAGCTTACCATCTTTATCCTGAGACTGGCCATTTACATCCTGACATTTCCCTTGTACC
TGCTGAACCTTTCTGGGCTTGTGGAGCTGGATATGCAAAAAATGGTTCCCCTACTTCTTGGTGAGGTTCACTGTGA
TATACAACGAACAGATGGCAAGCAAGAAGCGGGAGCTCTTCAGTAACCTGCAGGAGTTTGCAGGGCCCCCTCCGGGA
AACTCTCCCTGCTGGAAGTGGGCTGTGGCACGGGGGCCAACTTCAAGTTCTACCCACCTGGGTGCAGGGTGACCT
GTATTGACCCCAACCCCAACTTTGAGAAGTTTTTGATCAAGAGCATTGCAGAGAACCGACACCTGCAGTTTGAGC
GCTTTGTGGTAGCTGCCGGGAGAACATGCACCAGGTGGCTGATGGCTCTGTGGATGTGGTGGTCTGCACCTGG
TGCTGTGCTCTGTGAAGAACCAGGAGCGGATTCTCCGCGAGGTGTGCAGAGTGCTGAGACCGGGAGGGGCTTTCT
ATTTTCATGGAGCATGTGGCAGCTGAGTGTTCGACTTGGAATTACTTCTGGCAACAAGTCCTGGATCCTGCCTGGC
ACCTTCTGTTTGATGGGTGCAACCTGACCAGAGAGAGCTGGAAGGCCCTGGAGCGGGCCAGCTTCTCTAAGCTGA
AGCTGCAGCACATCCAGGCCCACTGTCTGGGAGTTGGTGCGCCCTCATATCTATGGATATGCTGTGAAATAGT
GTGAGCTGGCAGTTAAGAGCTGAATGGCTCAAAGAATTTAAAGCTTCAGTTTTACATTTAAAATGCTAAGTGGGA
GAAGAGAAACCTTTTTTTTTGGGGGGCGGTTTTTTTTGGTTTGGTTGGTTTTTTTTTTTTTTTTTTTTGGCGGGAAGAA
AGAGTTTTTGCTCTTGTGGCCAGGCTGGAGTGCAATGGCGTGGTCTCCGCTCACTGCAACCTCCACCTCGCGGGT
TTAGGCGATTCTTCTGCCTCAGCCTCCCTAGTAGCTGGGATTACAGGTGCCACCACCATGCCAGCTAATTTGT
ATTTTTAGTTGAGACAGGTTTCACTACGTTGGCCAGGCTGGTCTTGAACCTCTGATCTCAGGCAATCCACCCAC
CTCAGCCTCCCAAAGTGCTGGGATGACAGGCGTGAGCAACCGCACCAGCTTAAGGTTTTTTTGTTTTGTTTTGA
GACGGAGTTTTTCGCTCTTGTGGCCAGGCTGGAGTGCAATGCTGTGATCTCAGCTTACCACAACCTCCACCTCCC
GGGTTCAGGTGATTACCTGCCTCAGCCTCCTGAGTGGCTGGTATTACAGGCATGCGTCACCACGCCGGCTAATT
TTGTACTTTTTAGTAGAGATGGTGTTCCTCCACGTTGGTCAGTCTGGTCTCAAATTCCTGACCTCAGGTGATCTGC
CTGCCTCGGCCTCCCAAAGTGCTGTGATTACAGACGTCAGCCACCATGCCTGGCCTGAAACCTTTTTTAGGTAAA
GTTGAATTCATCCTTAAAAGTTTCTGTTATATCCTATTTAGCCATTTTCTATTGTCTCCCAAAGAATTCACATC
AAAAAACAGCTTTGAACTCCCCCTCAAAGGAAACAGTCGACTTTCATAATTAGCATCTACCATTATCCCCAAA
TCTTATTTTATTCATTGACTTGAAATTTTTTCCAATTGCTTTTTTTTTTTTTTTTTTTAAGGTTAAGAGCAGAGG
TTTACTAGGCCAAAGAAAGAGAAATAGCTCTCTGTTGCAGAGAGGGTCTGGAGAAATGGGTTACCCCAAGTTGTC
TTATTTAAATGGTTACCCATCAGATTTTAATTTTATCTTCTCTTTGAGAGCTTGGTAATAAGAAGCACTTAAATC
ACTCAAAGAAGACTTTAAAAAGGGAGCAGTGAAAAGGTCTTAATAATTTATTGATTGAATTAAGAAATACTAGC
TAATTAAGAATCTGAGTCTAAACAGCACAGATTTTTTCTTCTGCTTTTAAATTGTGTTTTAAAAAAGAGACAG
GGGCTGGGCGTGGTGGCTCACGCCTGTAATCCTAGCACTTTGGGAGGCCGAGGCGGGTGGATCACGAGGTAGGA
GTTAAAGACCAGCCTGGCCAACATGGCAAAACCCTACTAAAGATACAAAAAATTTGGCCAGGCGTGG
TGGTGGGTGCCTGTAATCCAGGTACTTGGAAGGCTGAGGCAGGAGAATCTCTTGAACCCAGAAGGCGAAGGTTG
CAGTGAACCGAGATCATGCCATTGTACTCTAGCCTGGGTGACAAGAGCAAGACTCCGTCTCAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

936/2777
FIGURE 834

MELTIFILRLAIYILTFPLYLLNFLGLWSWICKKWFPYFLVRFTVIYNEQMASKKRELF SNLQEFAGPSGKLSLL
EVGCGTGANFKFYPPGCRVTCIDPNPNFEKFLIKSIAENRHLQFERFVVAAGENMHQVADGSVDVVVCTLVLC SV
KNQERILREVCRVLRPGGAFYFMEHVAAECSTWNYFWQQVLDPAWHLLFDGCNLTRESWKALERASF SKLKLQHI
QAPLSWELVRPHIYGYAVK

937/2777
FIGURE 835

CTCTCTGCCCACCTCTGCTTCCTCTAGGAACACAGGAGTTCCAGATCACATCGAGTTCACCATGAATTCACTCAG
TGAAGCCAACACCAAGTTCATGTTTCGACCTGTTCCAACAGTTCAGAAAATCAAAAGAGAACAACATCTTCTATTC
CCCTATCAGCATCACATCAGCATTAGGGATGGTCCCTCTTAGGAGCCAAAGACAACACTGCACAACAGATTAAGAA
GGTTCTTCACTTTGATCAAGTCACAGAGAACCACAGGAAAAGCTGCAACATATCATGTTGATAGGTCAGGAAA
TGTTTCATCACCAGTTTCAAAAGCTTCTGACTGAATTCAACAAATCCACTGATGCATATGAGCTGAAGATCGCCAA
CAAGCTCTTCGGAGAAAAAACGTATCTATTTTTACAGGAATATTTAGATGCCATCAAGAAATTTTACCAGACCAG
TGTGGAATCTGTTGATTTTGCAAATGCTCCAGAAGAAAGTCGAAAGAAGATTAACTCCTGGGTGGAAAGTCAAAC
GAATGAAAAAATTAAAAACCTAATTCTGAAGGTAATATTGGCAGCAATACCACATTGGTTCTTGTGAACGCAAT
CTATTTCAAAGGGCAGTGGGAGAAGAAATTTAATAAAGAAGATACTAAAGAGGAAAAATTTTGGCCAAACAAGAA
TACATACAAGTCCATACAGATGATGAGGCAATACACATCTTTTCATTTTGCCTCGCTGGAGGATGTACAGGCCAA
GGTCTCGGAAATACCATACAAAGGCCAAAGATCTAAGCATGATTGTGTTGCTGCCAAATGAAATCGATGGTCTCCA
GAAGCTTGAAGAGAACTCACTGCTGAGAAATTGATGGAATGGACAAGTTTGCAGAATATGAGAGAGACACGTGT
CGATTTACACTTACCTCGGTTCAAAGTGGAAGAGAGCTATGACCTCAAGGACACGTTGAGAACCATGGGAATGGT
GGATATCTTCAATGGGGATGCAGACCTCTCAGGCATGACCGGGAGCCGCGGTCTCGTGCTATCTGGAGTCCTACA
CAAGGCCTTTTGTGGAGGTTACAGAGGAGGGAGCAGAAGCTGCAGCTGCCACCGCTGTAGTAGGATTTCGGATCATC
ACCTACTTCAACTAATGAAGAGTTCCATTGTAATCACCCCTTCTCTATTCTTCATAAGGCCAAAATAAGACCAACAG
CATCCTCTTCTATGGCAGATTCTCATCCCCGTAGATGCAATTAGTCTGTCACTCCATTTGGAAAATGTTACCTG
CAGATGTTCTGGTAAACTGATTGCTGGCAACAACAGATTCTTTGGCTCATATTTCTTTTCTTTCTCATCTTGAT
GATGATCGTCATCATCAAGAATTTAATGATTAAAATAGCATGCCTTTCTCTCTTTCTTTAATAAGCCACATAT
AAATGTACTTTTTCTTCCAGAAAAATTCTCCTTGAGGAAAAATGTCCAAAATAAGATGAATCACTTAATACCGTA
TCTTCTAAATTTGAAATATAATTCTGTTTGTGACCTGTTTTAAATGAACCAAACCAATCATACTTTTCTTTGA
ATTTAGCAACCTAGAAACACACATTTCTTTGAATTTAGGTGATACCTAAATCCTTCTTATGTTTCTAAATTTTGT
GATTCTATAAAACACATCATCAATAAAATAGTGACATAAAATCA

938/2777
FIGURE 836

MNSLSEANTKFMFDLFQQFRKSKENNIFYSPISITSALGMVLLGAKDNTAQQIKKVLHFDQVTENTTGKAATYHV
DRSGNVHHQFQKLLTEFNKSTDAYELKIANKLFGEKTYLFLQEYLDAIKKFYQTSVESVDFANAPEESRKKINSW
VESQTNEKIKNLIPEGNIGSNTTLVLVNAIYFKGQWEKKFNKEDTKEEKFWPNKNTYKSIQMMRQYTSFHFASLE
DVQAKVLEIPYKGKDLSMIVLLPNEIDGLQKLEEKLTAEKLMEWTSLQNMRETRVDLHLPFRKVEESYDLKDTLR
TMGMVDIFNGDADLSGMTGSRGLVLSGVLHKAFVEVTEEGAEAAAATAVVGFSSPTSTNEEFHCNHPFLFFIRQ
NKTNSILFYGRFSSP

939/2777
FIGURE 837

CCCAGGCGCAGCCAATGGGAAGGGTCGGAGGCATGGCACAGCCAATGGGAAGGGCCGGGGCACCAAAGCCAATGG
GAAGGGCCGGGAGCGCGCGCGGGAGATTTAAAGGCTGCTGGAGTGAGGGGTGCGCCGTGCACCCTGTCCCAG
CCGTCTGTCTGGCTGCTCGCTCTGCTTCGCTGCGCCTCCACTATGCTCTCCCTCCGTGTCCCGCTCGCGCCCA
TCACGGACCCGCAGCAGCTGCAGCTCTCGCCGTGAAGGGGCTCAGCTTGGTCGACAAGGAGAACACGCCGCCGG
CCCTGAGCGGGACCCGCTCTGGCCAGCAAGACCGCGAGGAGGATCTTCCAGGAGCCACGGAGCCGAAAACTA
AAGCAGCTGCCCCGGCGTGGAGGATGAGCCGCTGCTGAGAGAAAACCCCGCCGCTTTGTCTCTTCCCATCG
AGTACCATGATATCTGGCAGATGTATAAGAAGGCAGAGGCTTCCTTTTGGACCGCCGAGGAGGTTGACCTCTCCA
AGGACATTACGACTGGGAATCCCTGAAACCCGAGGAGAGATATTTATATCCCATGTTCTGGCTTTCTTTGCAG
CAAGCGATGGCATTAGTAAATGAAACTTGGTGGAGCGATTTAGCCAAGAAGTTCAGATTACAGAAGCCCGCTGTT
TCTATGGCTTCCAAATTGCCATGGAAAACATACATTCTGAAATGTATAGTCTTCTTATTGACACTTACATAAAAG
ATCCCAAAGAAAGGGAATTTCTCTTCAATGCCATTGAAACGATGCCTTGTGTCAAGAAGAAGGCAGACTGGGCCCT
TGCGCTGGATTGGGGACAAAGAGGCTACCTATGGTGAACGTGTTGTAGCCTTTGCTGCAGTGGGAAGGCATTTTCT
TTTCCGGTTCTTTTGCCTCGATATTCTGGCTCAAGAAAACGAGGACTGATGCCTGGCCTCACATTTTCTAATGAAC
TTATTAGCAGAGATGAGGGTTTACACTGTGATTTTGTCTGCCTGATGTTCAAACACCTGGTACACAAACCATCGG
AGGAGAGAGTAAGAGAAATAATTATCAATGCTGTTTCGGATAGAACAGGAGTTCCTCACTGAGGCCTTGCTGTGA
AGCTCATTGGGATGAATTGCACTCTAATGAAGCAATACATTGAGTTTGTGGCAGACAGACTTATGCTGGAAGTGG
GTTTTAGCAAGTTTTTTCAGAGTAGAGAACCCATTTGACTTTATGGAGAATATTTCACTGGAAGGAAAGACTAACT
TCTTTGAGAAGAGAGTAGGCGAGTATCAGAGGATGGGAGTGATGTCAAGTCCAACAGAGAATTCTTTTACCTTGG
ATGCTGACTTCTAAATGAAGTGAAGATGTGCCCTTACTTGGCTGATTTTTTTTTTTTCCATCTCATAAGAAAAATCA
GCTGAAGTGTTACCAACTAGCCACACCATGAATTGTCCGTAAATGTTTATTAAACAGCATCTTTAAACTGTGTAGC
TACCTCACAACCAGTCTGTCTGTTTATAGTGTCTGGTAGTATCACCTTTTGCCAGAAGGCCTGGCTGGCTGTGAC
TTACCATAGCAGTGACAATGGCAGTCTTGGCTTTAAAGTGAGGGGTGACCCTTTAGTGAGCTTAGCACAGCGGGA
TTAAACAGTCCTTTAACCAGCACAGCCAGTTAAAGATGCAGCCTCACTGCTTCAACGCAGATTTTAATGTTTAC
TTAAATATAAACCTGGCACTTTACAAACAAATAAACATTGTTTTGTACTCACGGCGGCGATAATAGCTTGATTTA
TTTGGTTTCTACACCAAATACATTCTCCTGACCACTAATGGGAGCCAATTACAAATTCATAAGTGACTAAAGTA
AGTTAACTTGTGTAGACTAAGCATGTAATTTTTAAGTTTTATTTAATGAATTAAATATTTGTTAACCAACTT
TAAAGTCAGTCTGTGTATACCTAGATATTAGTCAGTTGGTGCCAGATAGAAGACAGGTTGTGTTTTATCCTGT
GGCTTGTGTAGTGTCTGGGATTCTCTGCCCCCTCTGAGTAGAGTGTGTGGGATAAAGGAATCTCTCAGGGCAA
GGAGCTTCTTAAGTTAAATCACTAGAAATTTAGGGGTGATCTGGGCCTTCATATGTGTGAGAAGCCGTTTCATTT
TATTTCTCACTGTATTTTCTCAACGTCTGGTTGATGAGAAAAAATCTTGAAGAGTTTTTCATATGTGGGAGCTA
AGGTAGTATTGTAAAATTTCAAGTCATCTTAAACAAAATGATCCACCTAAGATCTTGCCCTGTAAAGTGGTGA
AATCAACTAGAGGTGGTTTCTTACAAGTTGTTTCTAGTTTTGTTTGGTGTAAAGTAGGTTGTGTGAGTTAATTC
ATTTATATTTACTATGTCTGTTAAATCAGAAATTTTTTATTATCTATGTTCTTCTAGATTTTACCTGTAGTTTCA
AAAAAAAAAAAAAAAAAAAAAAAAA

940/2777
FIGURE 838

MLSLRVPLAPITDPQQLQLSPLKGLSLVDKENTPPALSGTRVLASKTARRIFQEPTEPKTKAAAPGVEDEPLLRE
NPRRFVIFPIEYHDIWQMYKKAEEASFWTAEVDLSKDIQHWESLKPEERYFISHVLAFFAASDGIVNENLVERFS
QEVQITEARCFYGFQIAMENIHSEMYSLIDTYIKDPKEREFLFNAIETMPCVKKKADWALRWIGDKEATYGERV
VAFAAVEGIFFGSGSFASIFWLKKRGLMPGLTFSNELISRDEGLHCDFACLMFKHLVHKPSEERVREIIINAVRIE
QEFLTEALPVKLIGMNCTLMKQYIEFVADRLMLELGF SKVFRVENPFDFMENISLEGKTNFFEKRVG EYQRMGVM
SSPTENSFTLDADF

941/2777
FIGURE 839

CATCCTGCCACCCCTAGCCTTGCTGGGGACGTGAACCCTCTCCCCGCGCCTGGGAAGCCTTCTTGGCACCGGGAC
CCGGAGAATCCCCACGGAAGCCAGTTCCAAAAGGGATGAAAAGGGGGCGTTTCGGGCACTGGGAGAAGCCTGTAT
TCCAGGGCCCCCTCCCAGAGCAGGAATCTGGGACCCAGGAGTGCCAGCCTCACCCACGCAGATCCTGGCCATGAGA
GCTCCGCACCTCCACCTCTCCGCCGCTCTGGCGCCCGGGCTCTGGCGAAGCTGCTGCCGCTGCTGATGGCGCAA
CTCTGGGCGCGCAGAGGCGGCGCTGCTCCCCAAAACGACACGCGCTTGGACCCCGAAGCCTATGGCTCCCCGTGC
GCGCGGGCTCGCAGCCCTGGCAGGTCTCGCTCTTCAACGGCCTCTCGTTCCACTGCGCGGGTGTCTGGTGGAC
CAGAGTTGGGTGCTGACGGCGCGCACTGCGGAAACAAGCCACTGTGGGCTCGAGTAGGGGATGACCACCTGCTG
CTTCTTCAGGGAGAGCAGCTCCGCCGGACCACTCGCTCTGTTGTCCATCCCAAGTACCACCAGGGCTCAGGCCCC
ATCCTGCCAAGGCGAACGGATGAGCACGATCTCATGTTGCTGAAGCTGGCCAGGCCCCGTAGTGCTGGGGCCCCGC
GTCCGGGCCCTGCAGCTTCCCTACCGCTGTGCTCAGCCCGGAGACCAGTGCCAGGTTGCTGGCTGGGGCACCACG
GCCGCCCGGAGAGTGAAGTACAACAAGGGCCTGACCTGCTCCAGCATCACTATCCTGAGCCCTAAAGAGTGTGAG
GTCTTCTACCTGGCGTGGTCACCAACAACATGATATGTGCTGGACTGGACCGGGGCCAGGACCCTTGCCAGAGT
GACTCTGGAGGCCCCCTGGTCTGTGACGAGACCCTCCAAGGCATCCTCTCGTGGGGTGTTTACCCCTGTGGCTCT
GCCCAGCATCCAGCTGTCTACACCCAGATCTGCAAATACATGTCCTGGATCAATAAAGTCATACGCTCCAACTGA

TCCAGATGCTACGCTCCAGCTGATCCAGATGTTATGCTCCTGCTGATCCAGATGCCAGAGGCTCCATCGTCCAT
CCTCTTCCTCCCCAGTCGGCTGAACTCTCCCCTTGCTCTGCACTGTTCAAACCTCTGCCGCCCTCCACACCTCTAA
ACATCTCCCCTCTCACCTCATTCCCCCACCTATCCCATTCTCTGCCTGTACTGAAGCTGAAATGCAGGAAGTGG
TGGCAAAGGTTTATTCCAGAGAAGCCAGGAAGCCGGTCATCACCCAGCCTCTGAGAGCAGTTACTGGGGTCACCC
AACCTGACTTCCTCTGCCACTCCCTGCTGTGTGACTTTGGGCAAGCCAAGTGCCCTCTCTGAACCTCAGTTTCCT
CATCTGCAAAATGGGAACAATGACGTGCCTACCTCTTAGACATGTTGTGAGGAGACTATGATATAACATGTGTAT
GTAAATCTTCATGGTGATTGTCATGTAAGGCTTAACACAGTGGGTGGTGAGTTCTGACTAAAGGTTACCTGTTGT
CGTGA

942/2777
FIGURE 840

MRAPHLHLSAASGARALAKLLPLLMAQLWAAEAALLPQNDTRLDPAYGAPCARGSQPWQVSLFNGLSFHCAGVL
VDQSWVLTAAHCGNKPLWARVGDDHLLLQGEQLRRTRSVVHPKYHQSGPILPRRTDEHDLMLLKLARPVVPG
PRVRALQLPYRCAQPGDQCQVAGWGTTAARRVKYNKGLTCSSITILSPKECEVFYPGVVTNNMICAGLDRGQDPC
QSDSGGPLVCDLTLQGILSWGVPYPCGSAQHPAVYTQICKYMSWINKVIRSN

943/2777
FIGURE 841

ATGACCACCTGCAGCCGCCAGTTACCTCCTCCAGCTCCATGAAGGGCTCCTGCGGCATCGGAGGCGGCATCGGG
GCGGGCTCCAGCCGCATCTCCTCCGTCTGGCCGGGGCTCCTGCCCTGCCAGCACCTACGGGGGCGCCTCTGTC
TCCTCTCGCTTCTCCTCTGGGGGAGCCTGCGGGCTGGGGGGCGGCTATGGCGGTGGCTTCAGCAGCAGCAGCAGC
TTTGGTAGTGGCTTCGGGGGAGGATATGGTGGTGGCCTTGGTGTGGCTTCGGTGGTGGCTTGGGTGCTGGCTTT
GGTGGTGGTTTTGCTGGTGGTGGTGGGCTTCTGGTGGGCAGTGAGAAGGTGACCATGCAGAACCTCAATGACCGC
CTGGCCTCCTACCTGGACAAGGTGCGTGCTCTGGAGGAGGCCAACGCCGACCTGGAAGTGAAGATCCGTGACTGG
TACCAGAGGCAGCGGCCAGTGAGATCAAAGACTACAGTCCCTACTTCAAGACCATCGAGGACCTGAGGAACAAG
ATCATTGCGGCCACCATTGAGAATGCGCACGCCCTTTTGCAGATTGACAATGCCAGGCTGGCAGCCGATGACTTC
AGGACCAAGTATGAGGCACGAAGTGGCCTGCGGCAGACTGTGGAGGCCGACGTCAATGGCCTGCGCCGGGTGTTG
GATGAGCTGACCCTGGCCAGGACTGACCTGGAGATGCAGATCGAAGGCCTGAAGGAGGAGCTGGCCTACCTGAGG
AAGAACCACGAGGAGGAGATGCTTGCTCTGAGAGGTCAGACCGGCGGAGATGTGAACGTGGAGATGGATGCTGCA
CCTGGCGTGGACCTGAGCCGCATCCTGAATGAGATGCGTGACCAGTACGAGCAGATGGCAGAGAAAAACCGCAGA
GACGCTGAGACCTGGTTCTGAGCAAGACCGAGGAGCTGAACAAAGAAGTGGCCTCCAACAGCGAACTGGTACAG
AGCAGCCGCAGTGAGGTGACGGAGCTCCGGAGGGTGCTCCAGGGCCTGGAGATTGAGCTGCAGTCCCAGCTCAGG
ATGAAAGCATCCCTGGAGAACAGCCTGGAGGAGACCAAAGGCCGCTACTGCATGCAGCTGTCCCAGATCCAGGGA
CTGATTGGCAGTGTGGAGGAGCAGCTGGCCCAGCTACGCTGTGAGATGGAGCAGCAGAGCCAGGAGTACCAGATC
TTGCTGGATGTGAAGACGCGGCTGGAGCAGGAGATTGCCACCTACCGCCGCTGCTGGAGGGCGAGGATGCCAC
CTTTCTCCAGCAAGCATCTGGCCAATCCTATTCTTCCCGCGAGGTCTTCACCTCCTCCTCGTCTCTTCAGCC
GTCAGACCCGGCCCATCCTCAGAGCAGAGCTCATCCAGCTTCAGCCAGGGCCAGAGCTCCTAG

944/2777
FIGURE 842

MTTCSRQFTSSSSMKGSCGIGGGIGAGSSRISSVLAGASCPASTYGGASVSSRFSSGGACGLGGGYGGGFSSSSS
FGSGFGGGYGGGLGAGFGGGLGAGFGGGFAGGDGLLVGSEKVTMQLNDRLASYLDKVRALEEANADLEVKIRDW
YQRQRPSEIKDYSPYFKTIEDLRNKIIAATIENAHALLQIDNARLAADDFRTKYEARTGLRQTVEADVNGLRRLV
DELTARTDLEMQIEGLKEELAYLRKNHEEEMLALRGQTGGDVNVEMDAAPGVDLRILNEMRDQYEQMAEKNRR
DAETWFLSKTEELNKEVASNSELVQSSRSEVTELRRVLQGLEIELQSLRMKASLENSLEETKGRYCMQLSQIQG
LIGSVEEQLAQLRCEMEQQSQEYQILLDVKTRLEQEIATYRRLLEGEDAHLSSQQASGQSYSSREVFTSSSSSSA
VRPGPSSEQSSSSFSQGQSS

945/2777
FIGURE 843

AGAGCCGGCGCCGTCACCGCCCGCATTGCCGCTCCCAGTCCCGCGCTCGGCACGACATGAAATCCCCGACGAGG
TGCTACGCGAGGGCGAGTTGGAGAAGCGCAGCGACAGCCTCTTCCAGCTATGGAAGAAGAAGCGCGGGGTGCTCA
CCTCCGACCGCCTGAGCCTGTTCCCCGCCAGCCCCCGCGCGCGCCCCAAGGAGCTGCGCTTCCACTCCATCCTCA
AGGTGGACTGCGTGGAGCGCACGGGCAAGTACGTGTACTTCACCATCGTCACCACCGACCACAAGGAGATCGACT
TCCGCTGCGCGGGCGAGAGCTGCTGGAACGCGGCCATCGCGCTGGCGCTCATCGATTTCCAGAACC GCCGCGCCC
TGCAGGACTTTTCGAGCCGCCAGGAACGCACCGCACCCGCCGCACCCGCCGAGGACGCCGTGGCTGCCGCGGCCG
CCGCACCCTCCGAGCCCTCGGAGCCCTCCAGGCCATCCCCGCAGCCCAAACCCCGCACGCCATGAGCCCCGCCGCG
GGCCATACGCTGGACGAGTCGGACCGAGGCTAGGACGTGGCCGGCGCTCTCCAGCCCTGCAGCAGAAGAACTTCC
CGTGCGCGCGGATCCTCGCTCCGTTGCACGGGCGCCTTAAGTTATTGGACTATCTAATATCTATGTATTTATTTTC
GCTGGTTCTTTGTAGTCACATATTTTATAGTCTTAATATCTTGTTTTTGCATCACTGTGCCCATTGCAAATAAAT
CACTTGGCCAGTTTGCTTTTCTACCATCCGGCTGTGGCTCAGTGAGACTCCTGCTGGGAGGGTGGAGGCCAGGA
ATGGGCGGGCAGGACACCCCTCATCCAGTCCTGCGGGGCTGGTGTGAAAGGCGCTGGGAACCGGCTTTGAATGAAT
AAATGAATCGTGT

946/2777
FIGURE 844

MKSPDEVLRERGELEKRSDSLFQLWKKKRGVLTSDRLSLFPASPRARPKELELRFHSILKVDCVERTGKYVYFTIVTT
DHKEIDFRCAGESCWNAALALIDFQNRRLQDFRSRQERTAPAAPAEDAVAAAAAAPSEPSEPSRPSQPKPR
TP

947/2777
FIGURE 845

GGCTCCTTCGGGAAACCCAGCCCCGTCACCGGGCTCCGAGCGGCTCGCAGGCGAGCGACAGCGGCCTCAGCCCCG
GCAGCGCCAGCGGGCGGCTGCGGAAAGCGGAGGGAGTCCGACGCGGGCGCGGGCGGGGAGCGTGCGTCCGTTTCGC
ACAGGCAGCGGGAGGAGGGGCGGCGGAACCAATGCCGGGGACAGCGAGCAGACCCTGCAGAACCACCAGCAGCC
CAACGGCGGGCAGCCCTTCCTTATAGGCGTCAGCGGGGGAACAGCTAGCGGCAAGTCTTCCGTGTGTGCTAAGAT
CGTGCAGCTCCTGGGGCAGAATGAGGTGGACTATCGCCAGAAGCAGGTGGTTCATCCTGAGCCAGGATAGCTTCTA
CCGTGTCCTTACCTCGGAGCAGAAGGCCAAAGCCCTGAAGGGCCAGTTCAACTTTGACCACCCGGATGCCTTTGA
CAATGAACTCATTCTCAAAACACTCAAAGAAATCACTGAAGGGAAAACAGTCCAGATCCCCGTGTATGACTTTGT
CTCCCATTCGGAAGGAGGAGACAGTTACTGTCTATCCCGCAGACGTGGTGCTCTTTGAAGGGATCCTGGCCTT
CTACTCCAGGAGGTACGAGACCTGTTCCAGATGAAGCTTTTTGTGGATACAGATGCGGACACCCGGCTCTCACG
CAGAGTATTAAGGGACATCAGCGAGAGAGGCAGGGATCTTGAGCAGATTTTATCTCAGTACATTACGTTTCGTCAA
GCCTGCCTTTGAGGAATTCTGCTTGCCAACAAAGAAGTATGCTGATGTGATCATCCCTAGAGGTGCAGATAATCT
GGTGGCCATCAACCTCATCGTGACGACATCCAGGACATCCTGAATGGAGGGCCCTCCAAACGGCAGACCAATGG
CTGTCTCAACGGCTACACCCCTTCACGCAAGAGGCAGGCATCGGAGTCCAGCAGCAGGCCCGCATTGACCCGCTCTC
CATCGGACCCAGCCCTATCTCCAAGAGACAGAGGAGGGGTGAGGAGGCACTGCTCATCTGTACATACTGTTTC
CTATGACATTACTGTATTTAAGAAAAACACCATGGAGATGAAATGCCTTTGATTTTTTTTTTCTTTTTGTACTTTG
GAACGACAAAATGAAACAGAACTTGACCCCTGAGCTTAAATAACAAAACGTGTCCTAACTACTACTGGTGATGCCTA
ATTATGAATCCAACGTGTAACCAGTTATAAATACATATATATATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAA

948/2777
FIGURE 846

MAGDSEQLQNHQQPNGGEPFLIGVSGGTASGKSSVCAKIVQLLGQNEVDYRQKQVVILSQDSFYRVLTSEQKAK
ALKGQFNFDHPDAFDNELILKTLKEITEGKTIVQIPVYDFVSHSRKEETVTVYPADVVLFEGLAFYSQEVRLDFQ
MKLFVDTDADTRLSSRVLRDISERGRDLEQILSQYITFVKPAFEEFCLPTKKYADVIIIPRGADNLVAINLIVQHI
QDILNGGPSKRQTNGCLNGYTPSRKRQASESSSRPH

949/2777
FIGURE 847A

GAAAAACACGAGCCGTGTTGTATGTGGAGGCCCCGGTGTCTGGGTGTAATTCTCGTTCCTTCTGTGAGGTGAGGC
AGATGAAGCCATTTTCGTGGTTCTGCTGAGCATGGTCTTGGCAGTGTTTTTGGGAGCATCACACTGTGCCCTTTT
GTAACTTGCTAGCCCGGCCTGTCTTTTGCCCCGGGCTCAATGGCTGGATTGTGGAACTGCACCCGCCTTCAGG
TTGTTGAGCAACTGATGGGACGATCTCAGGGACCGGCGTTTACGAAAGAAATGTTTAATTTGGTAAATTGGAGGA
AAAAACATGGATTTTTAGCAATTGAAGAGCAAATTAAGGTTTCAGATTGGGATATTGGTGTCTGTCTTTGGA
GAAATTATTCTTTTTCTTTTAATTTGAAGAAAAATCATCAGTCTTGGAAATACAGAAGAGAACTAGAAATATAC
GTATTTTGTTCACATTTGAACAGTCATTCTTGAGGAATACTCCATACCTGAGTAGACAGCCATGTGGCCATCGC
AGCTACTAATTTTCATGATGCTCTTAGCTCCAATAATTCATGCTTTTCAGCCGTGCCCAATTCCAATGGCTGTGG
TCCGCAGAGAGCTATCCTGTGAGAGCTATCCTATAGAGCTTCGCTGTCCAGGAACAGACGTCATCATGATAGAAA
GTGCCAACTATGGCAGGACTGATGACAAAATTTGTGACTCTGACCCTGCTCAGATGGAGAATATCCGATGTTATC
TGCCAGATGCCTATAAGATTATGTCTCAAAGATGCAATAACAGAACCCAGTGTGCAGTGGTGGCAGGTCTTGATG
TTTTTCCAGACCCGTGTCCAGGAACCTATAAAATACCTTGAAGTGCAGTATGAATGTGTCCCTTACAAAGTGGAA
AAAAAGTTTTTCTTTGTCTGGACTACTAAAAGGAGTATACCAGAGTGAACATTTGTTTGAGTCCGACCACCAAT
CTGGGGCGTGGTGCAAAGACCCTCTGCAGGCATCTGACAAGATTTATTATATGCCCTGGACTCCCTACAGAACTG
ATACCCTGACTGAGTATTCATCCAAGGATGACTTCATTGCTGGAAGACCAACTACAACCTACAAGCTCCCTCATA
GGGTGGATGGCACAGGATTTGTAGTGTATGATGGAGCTTTGTTCTTCAACAAAGAGCGCACCAGGAACATAGTAA
AGTTTGATTTGCGGACTAGGATAAAGAGTGGAGAGGCTATCATAGCAAATGCCAATTACCATGATACCTCCCCTT
ACCGATGGGGAGGCAAATCTGACATAGACCTGGCAGTAGATGAGAATGGGCTATGGGTAATCTATGCAACAGAAC
AAAACAATGGTAAATTTGTCTATTAGTCAATTGAACCTTACACCTACGGATCGAAGGAACATGGGATACTGCAT
ATGATAAAAGGTGAGCTTCCAATGCCTTTATGATTTGTGGAATTCGTATGTGGTCAAATCTGTATATGAGGATG
ATGACAATGAGGCTACTGGAATAAGATTGACTACATTTACAACACTGACCAAAGCAAGGATAGTTTGGTGGATG
TACCCTTTCTTAATTCATACCAGTACATTGCAGCTGTGGATTACAACCCAGGGACAACCTACTTTATGTATGGA
ATAACTATCACGTCGTGAAATATTCTTTGGATTTTGGACCTCTGGATAGTAGATCAGGGCAGGCACATCATGGAC
AAGTTTCATACATTTCTCCGCCAATTCACCTTGACTCTGAGCTAGAAAGACCCTCTGTAAAGATATCTCTACCA
CAGGACCTCTTGGCATGGGAAGCACTACCACCAGTACCACCCTTCGGACCACAACCTTTGAGCCCAGGAAGGAGTA
CCACCCCGTCAGTGTGAGGAAGAAGAAACCGGAGTACTAGTACCCCATCTCCAGCTGTGAGGCTGTGGAAGCCCCGAG
AAATCATGTGGTTTAAGACTCGTCAAGGACAGATAGCAAAGCAGCCATGCCCTGCAGGAACCTATAGGTGTATCAA
CTTATCTATGCCTTGCTCCTGATGGAATTTGGGATCCCCAAGGTCCAGATCTCAGCAACTGTTCTTCTCCTTGGG
TCAATCATATAACACAGAAGTTGAAATCTGGTGAAACAGCTGCCAACATTGCTAGAGAGCTGGCTGAACAGACAA
GAAATCACTTGAATGCTGGGGACATCACTACTCTGTCCGGGCCATGGACCAGCTGGTAGGCCTCCTAGATGTAC
AGCTTCGGAACCTTGACCCCAGGTGGAAAAGATAGTGTGCTGCCGGAGTTTGAACAAGCTTCAGAAAAGAGAGCGCT
CTTGACAGAGCCTATGTCCAGGCAATGGTCGAGACAGTTAACAACCTCCTTCAGCCACAAGCTTTGAATGCATGGA
GAGACCTGACTACGAGTGATCAGCTGCGTGCAGGCCACCATGTTGCTTCATACTGTGGAGGAAAGTGCTTTTGTGC
TGGCTGATAACCTTTTGAAGACTGACATTTGTGAGGGAGAATACAGACAATATTAAATTGGAAGTTGCAAGACTGA
GCACAGAAGGAAACTTAGAAGACCTAAAAATTTCCAGAAAACATGGGCCATGGAAGCACTATCCAGCTGTCTGCAA
ATACCTTAAAGCAAAATGGCCGAAATGGAGAGATCAGAGTGGCCTTTGTCTGTATAACAACCTTGGGTCTTATT
TATCCACGGAGAATGCCAGTATGAAGTTGGGAACGGAAGCTTTGTCCACAATCATTCTGTATTGTCAATTCCC
CTGTTATTACGGCAGCAATAAACAAGAGTTTCAAGTAAAGGTTTATTTGGCTGATCCTGTGGTATTTACTGTTA
AACATATCAAGCAGTCAGAGGAAAATTTCAACCCTAACTGTTTCAATTTTGGAGCTACTCCAAGCGTACAATGACAG
GTTATTGGTCAACACAAGGCTGTGCGCTCCTGACAACAAATAAGACACATACTACATGCTCTTGTAAACACCTAA
CAAATTTTGCAGTACTGATGGCACATGTGGAAGTTAAGCACAGTGATGCGGTCCATGACCTCCTTCTGGATGTGA
TCACGTGGGTGGAATTTTGTCTGCTCCTGTTTGTCTCCTGATTTGCATCTTCACATTTTGTCTTTTCCGCGGGC
TCCAGAGTGACCGTAACACCATCCACAAGAACCTCTGCATCAGTCTCTTTGTAGCAGAGCTGCTCTTCTGATTG
GGATCAACCGAACTGACCAACCAATTGCCTGTGCTGTTTTCGCTGCCCTGTTACATTTCTTCTTCTTGGCTGCCT
TCACCTGGATGTTCTTGGAGGGGGTGCAGCTTTATATCATGCTGGTGGAGGTTTTTGGAGGTGAACATTCACGTA
GGAAATACTTTTATCTGGTTCGGCTATGGGATGCCTGCACTCATTGTGGCTGTGTGAGCTGCAGTAGACTACAGGA
GTTATGGAACAGATAAAGTATGTTGGCTCCGACTTGACACCTACTTCATTTGGAGTTTTATAGGACCAGCAACTT

FIGURE 847B

IGATAATTATGCTTAATGTAATCTTCCCTGGGATTGCTTTATATAAAATGTTTCATCATACTGCTATACTGAAAC
CTGAATCAGGCTGTCTTGATAACATCAACTATGAGGATAACAGACCCTTCATCAAGTCATGGGTTATAGGTGCAA
TAGCTCTTCTCTGCCTATTAGGATTGACCTGGGCCTTTGGACTCATGTATATTAATGAAAGCACAGTCATCATGG
CCTATCTCTTACCATTCTTCAATTCTCTACAGGGAATGTTTATATTTATTTTCCATTGTGTCTACAGAAGAAGG
TACGAAAAAGAGTATGGGAAATGCCTGCGAACACATTGCTGTAGTGGCAAAAGTACAGAGAGTTCCATTGGTTCAG
GGAAAAACATCTGGTTCTCGAACTCCTGGACGCTACTCCACAGGCTCACAGAGCCGAATCCGTAGAATGTGGAATG
ACACGGTTCGAAAGCAGTCAGAGTCTTCCCTTTATTACTGGAGACATAAAACAGTTCAGCGCTCACTCAACAGAGAGC
CCTACAGAGAGACAAGTATGGGAGTAAAGCTAAACATTGCATATCAAATAGGGGGCTTCTGAACAATGCCAGGGAT
ACAAGTGTCTATGGATACTCTACCACTGAATGGTAAACCATGGCAATAGTTACAGCATTGCCAGCGGCGAATACCTG
AGCAACTGTGTGCAAAATCATAGACCGTGGCTATAACCATAACGAGACCGCCCTAGAGAAAAAGATTCTGAAGGAA
CTCACTCCCAACTATATCCCTTCTTACCTGAACAACCATGAGCGCTCCAGTGAACAGAAACAGGAATCTGATGAAC
AAGCTGGTGAATAACCTTGGCAGTGGAAAGGGAAGATGATGCCATTGTCTGGATGATGCCACCTCGTTTTAACCA
GAGGAGAGTTTGGGCCTGGAACTCATTTCATGAGGAATCTGATGCTCCTTTTGCTGCCCCCAAGAGTATACTCCACC
GAGAACCACCAGCCACACCATTATACAGAAAGGCGGATCCCCCAAGACCACAGTGAGAGCTTTTTTCCCTTTTGCTA
ACCAACGAGCACACAGAAGATCTCCAGTCACCCCCATAGAGACTCTCTCTATACCAGCATGCCGACACTGGCTGGT
GTGGCCGCCACAGAGAGTGTTACCACCAGCACCCAGACCGAACCCCCACCGGCCAAATGTGGTGATGCCGAAGAT
GTTTACTACAAAAGCATGCCAAACCTAGGCTCCAGAAAACACGTCCATCAGCTGCATACTTACTACCAGCTAGGT
CGCGGCAGCAGTGATGGATTATAGTTTCTCCAAACAAAGATGGGACCCCTCCCAGGGGAAGTTCAAAAGGACCG
GCTCATTGGTCACTAGTCTATAGAAGATGACACAGAAATTGGAACCAACAAAACCTGCTAACACCTTGTGTGACTG
TTCTGAGTTGATATAAGCAGTGGTAATAATGTGTGTACTCCTAAATCTTTATGCTGTCTCTAAAGACAAACACA
AACTCTCAGACTTTTTTTTTTTTTTAATGGGATTTTTAGGTTCAGCCAGGGGAGAAAAGATAAACTGCTAAAAATTCCCC
TGTACCCCATCCTTTTCTTGTCTTTTCCCTTCAGATGGAGACTTCATTATGTTAATGAACAAGATATGAAGAAAA
TGGCACTCATTGTGGCCTTGTGTAATTATGTTGTGTATGTTTTAACATCTCTGATGCTGTGTTACTAAAAATTACA
AGGACCTGCTTTTTTAAAGGCCAGAACAAATTGTCTGAAATTAGTAACAATGCTGCATCTAGATTGGAGTGCTGCA
CAAACAAACATAAGAGCAAAGCAAACCTGTATCACAATAGGGTTTTTGGTCACTCACAACTGAATTCACCACAGC
TGGAATAGCTGTGGAACCAACAAATAAAACAAACAAATTAATAATGAAATGGAGGGGAATTCTAGAATTATATGCT
AAATGCATATTTTATGATTTGCTGTATTAACTGATGATAAACTAATGGCAGAAAAAGAGTTGAGCAATTTCTA
TGTAATGTACAGATACTAGCATTGCACATATAGTCTGCTTTCTGTTCTCTCCAGAATTTGAGTCTGTTAATGTAG
TAGAAAAAAAAAAAAAGAAATTTTCTTTTTCTTTTGTGCTGGTCTTGCAAGTTGTCTACCAGTAAGAGAGCAAAG
TTTCTTCTCTTTCTTCTCTTTCTTCATTTTCTTTTTTCTTTTTTGCCTTTTATTCCTTTAAAAATTCGCCCTGGC
AAAAAATAAATAAATGGAACATCACTTTTATAAGAAATCATTTTCTAGTAATGCAACAAATATTTTTTACAAAA
AAACAAAAATAAATAAATTAGACTTCCCTTCCCTCACTATATATCTTTATGCAGTCAGAATATTTCCAACAGTGTT
TTTTGCAAATTAGAGCAGGACAAACCTTTTATGTTTACAGGGCACGTCGTGTTGTAATGCAAGCATATTTGGCAAG
CAGTTCATCACCAGGACACTAGCTATGATTCTAGAAGTCAAAAGGTGCTCTATAGAAGTCTAGTGGGGCTTCTGCATG
TGAAAAACGGTTTTTCATAGGCATTAAAGTGCTGAATGCTCAGTCTGATCAACAAGTGGGCACCTGCCTACCAC
TTTTTAGAGGAAATTCCTCCCTCGTAAGCATTTGGAAGGTCAAATATTTTGAAGTGATTTTTTTTTAAAAAAG
TCTTCTGTTTATTAACAGGAAAATTTATTTATTTGACAGGATTTGAGTAATGTAGGAATACAAAGGTAAATTA
GCAGCACATATAATTTTTTTTTTAATTTATGATCCATTTGTATGGTCTCAAAGTTGGATGACCTCATTACTAATA
TTTGTGTGAAAAGTGAAACTTGTGTGCCAACCAATAAACAACTGATTGAGATTAGAAAGATATTGTAAAAA
AAAAA

951/2777
FIGURE 848

MWFSQLLIFMMLLAPIIHAFSRAPIPMAVVRRELSCESYPIELRCPGTDVIMIESANYGRDDKICDSQPAQME
IRCYLPDAYKIMSQRCCNNRTQCAVVAGPDVFPDPCPGTYKYLEVQYECVPYKVEQKVFLCPGLLKGVYQSEHLFE
SDHQSGAWCKDPLQASDKIYYMPWTPYRTDTLLEYSSKDDFIAGRPTTTYKLPHRVDGTGFVVYDGAFFNKERT
RNIVKFDLRTRIKSGEAIIANANYHDTSPYRWGGKSDIDLAVDENGWLVIYATEQNNGKIVISQLNPYTLRIEGT
WDTAYDKRSASNAFMICGILYVVKSVYEDDDNEATGNKIDYIYNTDQSKDSLVDVFPFNSYQYIAAVDYNPRDNL
LYVWNNYHVVKYSLDFGLDSRSGQAHHGQVSYISPPIHLDSELERPSVKDISTTGPLGMGSTTTSTTLRTTTLS
PGRSTTPSVSGRRNRSTSTPSPAVEVLDDMTTHLPSASSQIPALEESCEAVEAREIMWFKTRQGQIAKQPCPAGT
IGVSTYLCLAPDGIWDPQGPDLSSNCSSPWVNHITQKLKSGETAANIARELAEQTRNHLNAGDITYSVRAMDQLVG
LLDVQLRNLTPGGKDSAARSLNKLQKRERSCRAYVQAMVETVNNLLQPQALNAWRDLTTSDQLRAATMLLHTVEE
SAFVLADNLLKTDIVRENTDNIKLEVARLSTEGNLEDLKFPENMGHGSTIQLSANTLKQNGRNGEIRVAFVLYNN
LGPYLSTENASMKLGTEALSTNHSVIVNSPVITAAINKEFSNKVYLADPVVFTVKHIKQSEENFNPNCSFWSYSK
RMTGYWSTQGCRLLTNNKTHHTCSCNHLTNFAVLMAHVEVKHSDAVHDLLLDVITWVGILLSLVCLLICIFTFC
FFRGLQSDRNTIHKNLCSLFAELLFLIGINRTDQPIACAVFAALLHFFFLAAFTWMFLEGVQLYIMLVEVFES
EHSRRKYFYLVGYGMPALIVAVSAAVDYRSYGTDKVCWLRLDTYFIWSFIGPATLIIMLNVIFLGIALYKMFHHT
AILKPESGCLDNINYEDNRPFIKSWVIGAIALCLLGLTWAFGLMYINESTVIMAYLFTIFNSLQGMFIFIFHCV
LQKKVRKEYGKCLRTHCCSGKSTESSIGSGKTSGRTPGRYSTGSQSRIRRMWNDTVRKQSESSFITGDINSSAS
LNREPYRETSMGVKLNIAAYQIGASEQCQGYKCHGYSTTEW

952/2777
FIGURE 849

GAATTC^{CGGACAGGACGTGAAGATAGTTGGGTTTGGAGGCGGCCGCCAGGCCAGGCCCGGTGGACCTGCCGCCA}
TGCAGGACGGTAACTTCCTGCTGTCGGCCCTGCAGCCTGAGGCCGGCGTGTGCTCCCTGGCGCTGCCCTCTGACC
TGCAGCTGGACCGCCGGGGCGCCGAGGGGCCGGAGGCCGAGCGGCTGCGGGCAGCCCGCTCCAGGAGCAGGTCC
GCGCCCGCTCTTGCAGCTGGGACAGCAGCCGCGGCACAACGGGGCCGCTGAGCCCAGCCTGAGGCCGAGACTG
CCAGAGGCACATCCAGGGGGCAGTACCACACCCTGCAGGCTGGCTTCAGCTCTCGCTCTCAGGGCCTGAGTGGGG
ACAAGACCTCGGGCTTCGGCCCCATCGCCAAGCCGGCCTACAGCCCAGCCTCCTGGTCCTCCCGCTCCGCCGTGG
ATCTGAGCTGCAGTCGGAGGCTGAGTTCAGCCCACAATGGGGGCAGCGCCTTTGGGGCCGCTGGGTACGGGGGTG
CCCAGCCCACCCCTCCCATGCCCACCAGGGCCGTGTCTTCCATGAGCGCGGTGGGGTTGGGAGCCGGGCCGACT
ATGACACACTCTCCCTGCGCTCGCTGCGGCTGGGGCCCGGGGGCCTGGACGACCGCTACAGCCTGGTGTCTGAGC
AGCTGGAGCCCGCGGCCACCTCCACCTACAGGGCCTTTGCGTACGAGCGCCAGGCCAGCTCCAGCTCCAGCCGGG
CAGGGGGGCTGGACTGGCCCGAGGCCACTGAGGTTCCCCGAGCCGGACCATCCGTGCCCTGCCGTGCGGACCC
TGCAGCGATTCCAGAGCAGCCACCGGAGCCGCGGGGTAGGCGGGGCAGTGCCGGGGGCCGTCTGGAGCCAGTGG
CTCGAGCGCCATCTGTGCGCAGCCTCAGCCTCAGCCTGGCTGACTCGGGCCACCTGCCGGACGTGCATGGGTTCA
ACAGCTACGGTAGCCACCGAACCTGCAGAGACTCAGCAGCGGTTTTGATGACATTGACCTGCCCTCAGCAGTCA
AGTACCTCATGGCTTCAGACCCCCAACCTGCAGGTGCTGGGAGCGGCCTACATCCAGCACAAGTGCTACAGCGATG
CAGCCGCCAAGAAGCAGGCCCGCAGCCTTCAGGCCGTGCCTAGGCTGGTGAAGCTCTTCAACCACGCCAACAGG
AAGTGCAGCGCCATGCCACAGGTGCCATGCGCAACCTCATCTACGACAACGCTGACAACAAGCTGGCCCTGGTGG
AGGAGAACGGGATCTTCGAGCTGCTGCGGACACTGCGGGAGCAGGATGATGAGCTTCGCAAAAATGTCACAGGGA
TCCTGTGGAACCTTTTCATCCAGCGACCACCTGAAGGACCGCCTGGCCAGAGACACGCTGGAGCAGCTCACGGACC
TGGTGTGAGCCCCCTGTCGGGGGCTGGGGGTCCCCCCTCATCCAGCAGAACGCCTCGGAGGCGGAGATCTTCT
ACAACGCCACCGGCTTCCTCAGGAACCTCAGCTCAGCCTCTCAGGCCACTCGCCAGAAGATGCGGGAGTGCCACG
GGCTGGTGGACGCCCTGGTCACTCTATCAACCACGCCCTGGACGCGGGCAAATGCGAGGACAAGAGCGTGGAGA
ACGCGGTGTGCGTCTGCGGAACCTGTCTACCGCCTCTACGACGAGATGCCGCCGTCCGCGCTGCAGCGGCTGG
AGGGTCGCGGCCGAGGGACCTGGCGGGGGCGCCGCCGGGAGAGGTGCTGGGCTGCTTCACGCCGAGAGCCGGC
GGCTGCGCGAGCTGCCCCCTCGCCGCCGATGCGCTCACCTTCGCGGAGGTGTCCAAGGACCCCCAAGGGCCTCGAGT
GGCTGTGGAGCCCCCAGATCGTGGGGCTGTACAACCGGCTGCTGCAGCGCTGCGAGCTCAACCGGCACACGACGG
AGGCGGCCGCGGGGGCGCTGCAGAACATCACGGCAGGCGACCGCAGGTGGGCGGGGGTGTGAGCCGCCTGCCCC
TGGAGCAGGAGCGTATTCTGAACCCCTGCTAGACCGTGTCTAGGACCGCCGACCACCACCACTGCGCTCACTGA
CTGGCCTCATCCGAAACCTGTCTCGGAACGCTAGGAACAAGGACGAGATGTCCACGAAGGTGGTGGAGCCACCTGA
TCGAGAAGCTGCCAGGCAGCGTGGGTGAGAAGTCGCCCCCAGCCGAGGTGCTGGTCAACATCATAGCTGTGCTCA
ACAACCTGGTGGTGGCCAGCCCCATCGCTGCCCCGAGACCTGCTGTATTTTGACGGACTCCGAAAGCTCATCTTCA
TCAAGAAGAAGCGGGACAGCCCCGACAGTGAGAAGTCTCCCGGGCAGCATCCAGCCTCCTGGCCAACCTGTGGC
AGTACAACAAGCTCCACCGTGACTTTCGGGCGAAGGGCTATCGGAAGGAGGACTTCCTGGGCCCCATAGCTGAAGC
CTTCTGGAGGAGAAGGTGACGTGGCCCAGCGTCCAAGGGACAGACTCAGCTCCAGGCTGCTTGGCAGCCCAGCCT
GGAGGAGAAGGCTAATGACGGAGGGGCCCCCTCGCTGGGGCCCCCTGTGTGCATCTTTGAGGGTCTGGGGCCACCAG
GAGGGGCAGGGTCTTATAGCTGGGGACTTGGCTTCCGCAGGGCAGGGGGTGGGGCAGGGCTCAAGGCTGCTCTGG
TGTATGGGGTGGTGACCCAGTCACATTGGCAGAGGTGGGGGTGGCTGTGGCCTGGCAGTATCTTGGGATAGCCA
GCACTGGGAATAAAGATGGCCATGAACAGTCACAAAAAAAAAAAAAAAAAGGAATTC

953/2777
FIGURE 850

MQDGNFLLSALQPEAGVCSLALPSDLQLDRRGAEQPEAERLRAARVQEQVRARLLQLGQQPRHNGAAEPEPEAET
ARGTSRGQYHTLQAGFSSRSQGLSGDKTSGFRPIAKPAYSPASWSSRSAVDLSCSRRLSSAHNGGSAFGAAGYGG
AQPTPPMPTRPVSFHERGGVGSRADYDTLSLRSLRLGPGGLDDRYSLVSEQLEPAATSTYRAFAYERQASSSSSR
AGGLDWPEATEVSPSRTIRAPAVRTLQRFQSSHRSGVGGAVPGAVLEPVARAPSVRSLSLSLADSGHLDPDVHGF
NSYGSHTLQRLSSGFDDIDLPSAVKYLMASDPNLQVLGAAYIQHKCYSDAAAKQARSLQAVPRLVKLFNHNQ
EVQRHATGAMRNLIYDNADNKLALVEENGIFELLRTLREQDDELKKNVTGILWNLSSSDHLKDRLARDTLEQLTD
LVLSPLSGAGGPPLIQNASEAEIFYNATGFLRNLSASQATRQKMRECHGLVDALVTSINHALDAGKCEDKSVE
NAVCVLRNLSYRLYDEMPPSALQRLRGRGRRDLGAPPGEVVGCFTPQSRRLRELPLAADALTFAEVSKDPKGLE
WLWSPQIVGLYNRLQRCENRHTTEAAAGALQNTAGDRRWAGVLSRLALEQERILNPLLDVRTADHHQLRSL
TGLIRNLSRNARNKDEMSTKVVSHLIEKLPGSVGEKSPPAEVLVNI IAVLNNLVVASPIAARDLLYFDGLRKLIF
IKKKRDSPEKSSRAASSLLANLWQYNKLHRDFRAKGYRKEDFLGP

954/2777
FIGURE 851A

ATGATTGTCAAAAATTCTGTGTGGTTTTGTACATTGGGAATTTATTTATGTGATAACTGCGTTTAACTTGTCA
TATCCAATTACTCCTTGGAGATTTAAGTTGTCTTGCATGCCACCAAATTC AACCTATGACTACTTCTTTTGCCT
GCTGGACTCTCAAAGAATACTTCAAATTCGAATGGACATTATGAGACAGCTGTTGAACCTAAGTTTAAATTC AAGT
GGTACTCACTTTTCTAACTTATCCAAAACA ACTTTCCACTGTTGCTTTCGGAGTGAGCAAGATAGAACTGCTCC
TTATGTGCAGACAACATTGAAGGAAAGACATTTGTTTCAACAGTAAATTC TTTAGTTTTTCAACAAATAGATGCA
AACTGGAACATACAGTGCTGGCTAAAAGGAGACTTAAATTTATTCATCTGTTATGTGGAGTCATTATTTAAGAAT
CTATT CAGGAATTATAACTATAAGGTCCATCTTTTATATGTTCTGCCTGAAGTGTTAGAAGATTCACCTCTGGTT
CCCCAAAAGGCAGTTTTTCAGATGGTTCACTGCAATTGCAGTGTTCAATGAATGTTGTGAATGCTTGTGCCTGTG
CCAACAGCCAAACTCAACGACACTCTCCTTATGTGTTTGAAAAATCACATCTGGTGGAGTAATTTTCCAGTCACCT
CTAATGTCAGTT CAGCCATAAATATGGTGAAGCCTGATCCACCATTAGGTTTGCATATGGAAATCACAGATGAT
GGTAATTTAAAGATTTCTTGGTCCAGCCACCATTGGTACCATTTC CACTTCAATATCAAGTGAAATATTCAGAG
AATTCACAAACAGTTATCAGAGAAGCTGACAAGATTGTCTCAGCTACATCCCTGCTAGTAGACAGTATACTTCCT
GGGTCTTCGTATGAGGTT CAGGTGAGGGGCAAGAGACTGGATGGCCAGGAATCTGGAGTGACTGGAGTACTCCT
CGTGTCTTTACCACACAAGATGTCATATACTTTCCACCTAAAAATCTGACAAGTGTTGGGTCTAATGTTTCTTTT
CACTGCATCTATAAGAAGGAAAACAAGATTGTTCCCTCAAAGAGATTGTTTGGTGGATGAATTTAGCTGAGAAA
ATTCCTCAAAGCCAGTATGATGTTGTGAGTGATCATGTTAGCAAAGTTACTTTTTTCAATCTGAATGAAACCAAA
CCTCGAGGAAAGTTTTACCTATGATGCAGTG TACTGCTGCAATGAACATGAATGCCATCATCGCTATGCTGAATTA
TATGTGATTGATGTCAATATCAATATCTCATGTGAAACTGATGGGTACTTAACTAAAATGACTTGCAGATGGTCA
ACCAGTACAATCCAGTCACTTGCGGAAAGCACTTTGCAATTGAGGTATCATAGGAGCAGCCTTTACTGTTCTGAT
ATTCCATCTATTCAATCCCATATCTGAGCCCAAAGATTGCTATTTGCAGAGTGATGGTTTTTATGAATGCATTTTC
CAGCCAATCTTCTATTATCTGGCTACACAATGTGGATTAGGATCAATCACTCTCTAGGTTCACTTGACTCTCCA
CCAACATGTGTCTTCTCTGATTCTGTGGTGAAGCCACTGCCTCCATCCAGTGTGAAAGCAGAAATTACTATAAAC
ATTGGATTATTGAAAATATCTTGGGAAAAGCCAGTCTTTCCAGAGAATAACCTTCAATTCCAGATTCGCTATGGT
TTAAGTGGAAGAAGTACAATGGAAGATGTATGAGGTTTATGATGCAAAATCAAATCTGT CAGTCTCCAGTT
CCAGACTTGTGTGCAGTCTATGCTGTT CAGGTGCGCTGTAAGAGGCTAGATGGACTGGGATATTGGAGTAATTGG
AGCAATCCAGCCTACACAGTTGT CATGGATATAAAAGTTCCATAGAGAGGACCTGAATTTTGGAGAATAATTAAT
GGAGATACTATGAAAAGGAGAAAAATGTCACTTTACTTTGGAAGCCCCCTGATGAAAATGACTCATTGTGCAGT
GTT CAGAGATATGTGATAAACCATCATACTTCTTGCAATGGAACATGGT CAGAAGATGTGGGAAATCACACGAAA
TTCATTTTCTGTGGACAGAGCAAGCACATACTGTTACGGTTCTGGCCATCAATTCAATTGGTGTCTTCTGTTGCA
AATTTTAATTTAACCTTTTTCATGGCCTATGAGCAAAAGTAAATATCGTGCAGTCACTCAGTGCTTATCCTTTAAAC
AGCAGTTGTGTGATTGTTTCTGGATACTATCACCCAGTGATTACAAGCTAATGTATTTTATTATTGAGTGGAAA
AATCTTAATGAAGATGGTGAAATAAAATGGCTTAGAATCTCTTCATCTGTTAAGAAGTATTATATCCATGATCAT
TTTATCCCCATTGAGAAGTACCAGTTCAGTCTTTACCCAATATTTATGGAAGGAGTGGGAAAACCAAAGATAATT
AATAGTTTCACTCAAGATGATATTGAAAAACACCAGAGTGATGCAGGTTTATATGTAATTGTGCCAGTAATTATT
TCCTCTTCCATCTTATTGCTTGGAAACATTATTAATATCACACCAAAGAATGAAAAGCTATTTTGGGAAGATGTT
CCGAACCCCAAGAATTGTTCTGGGCACAAGGACTTAATTTTCAGAAGAGAACGGACATTCTTTTGAAGTCTAATC
ATGATCACTACAGATGAACCCAATGTGCCAACTTCCCAACAGTCTATAGAGTATTAGAAGATTTTACATTTTGA
AGAAGGGGAGCAAATCTAAAAAAAATTCAGTTGAACTTCTGAGAGTTAACATATGGTGGATTATGTTGATTTAGA
ACTTAAAATAGATGTGTAAATTTGGGTTCAAATGTAGATTTGAGTCCAGTTTGGATGTGTGATTAATTTTCAA
TCATCTAAAGTTTTAAAGTAGTATTCATGATTTCTGGCTTTTGATTTGT CATATTCTGGTCATAAAACATTAG
AAAATTATGGCTGTTGCTGT CATTACATATCTATTAAATGTCATCAAATATGTAGTAGACAATGCTGTAATTAGG
TGA ACTCTAAAAC TGCAACATCTGACAAATAGCTTTAAAAATACAATGATTATAAGTATGGAATCAGTGAAAATA
TTTAGTTTGATTTTTATGTCCAAACTTTTCCATTTTAGATTCTTTTATAGACACGTCAGCCTAAAAATCAGCCT
ATT CGGTGTTCTTTTGAATATCTCCTGGCATTTTGTATCTAACTTTGTTCAATCTGGGAATTT CAGTTTTCAA
TATCCTTGAAAATGGCTTAAGTGATAACTTCCGTTT CAGTTAAAAGGAAGCCGAAGTTGTGTTTGTGCTGCCCA
CAGGACAGTGGGAGTTACAGTT CATATCAGGATGACCCTACATACCCAGGTCAGATTGACGGGACCAGAAGGGAA
CATCGACTTCTAATCCAGCTTTCTTGTTTAATTATGACCTAAATCTAATTTACTTCCACTGAACCATCCAAGACC
TCTGGCAGGCAGGGAAATGGGCAGTGATGCAAAAAAGGGAGACTCTTTGGAGCTTTTATGAATAGTT CATGGTGA

955/2777
FIGURE 851B

GGACAGAACTTTTCTACTTTCAGACAGACTGCTTGCTAGTTTTATGAATTCAGCACACGAATTATGCTGCGTTGC
TCACATTCAAACCAAACCAACGACTATGTTTAATGAACTCAGTATTCAAATTTATTATATATGCGTATATATGTA
TATATGGATCCCTTATATTTAGATTTAACTCGTAGTTTTATTTGAAAGTAGAAAAGAACTCTACAAAAACGGGAA
GAATGTGTCTTTCTTCCCTTCTTGACTTCTAATAGGTGTCATTGAAATGTAAATCTAAGTATGAAATTATGAAA
GGACATTCTTTAATTACTGCCCACTCAACACATATTTAATATGTGCCAGATTATTCTAAAAATCTTAAAAAAGA
TGCATATAGTGAAATTTTTTAAATGGATATACTTTTTAATAAAGTTTTATAACTCACTGACAAAACATATTTCAAT
AGTATATGAGTATGAGATTTCTTATCAATTATGAGTGAAATATTCTATCTGAATGCATTGGAAGGCATTTACAGT
ATTTGCTTTCAACAGTTACTGAGTATGACATTTTAGCATGAAATATATCAAACACATCATTTGAAGGACATATGT
AATCTTGACTATGGTTATGGTTTTTTTTGTATGTATTCTTGTTTTTCATATTGATAGCATCTAATTCCTTTTGACAA
TCTTAATATGTAGGTTTCATTTAAATTTTTAAGACAGTTCAGTGCATATATAGTAGAAGCCTTAAGAAAAAAGAAAA
TGAGCAAGCAAATATTTGAAGAAATGTATAAAACCATAGATTTCTTTCAGAAAAAACAAGGCATAGGAACAG
TTTTCTCTTCATATATTATGATTATGAATAATAGGAAAGTTGTATTAATTCAGTATTTGTCATTATGCAGTATTT
TAATACCTACATAAGTCTATTCCATTATTATATTTTTGCGCTTGGCATATTTATTCCCTTTATGCTTTTTAATCACTA
ACATATTTTACTTAAGAGTATAAACTATGCTAAATAAATTGTATTGTATATGGAATATGCTTGCCATTATGAAG
AACAGCTGGGTATACCATTTATTTCAAGTAATAAATCTGAATTCATTAGTTTTAAAAATTGTAAAATTCAAGTTAA
ATGACGTGTATGATATATAAGCTGAACACATTTTCTATAGCCCTTAATTTAGTTGTGTTAATTTTTCAAGGTGAT
GTATCAACAGCTTTTTTTTTTGCATTTGTTTTTCAATGTGTTTACATTGTATGAATTGAGCTTTTTGCCACA
GATTCCTTGATTTGTAGTTGTTTGGCAGGATTTTCTTTGTGATATAATCACTTCTATAAAAAATATGATGTACAA
AAAAAAAAAAAAAAAAAAAA

956/2777
FIGURE 852

MICQKFCVLLHWEFIYVITAFNLSYPITPWRFKLSMPPNSTYDYFLLPAGLSKNTSNSNGHYETAVEPKFNSS
GTHFSNLSKTTFHCCFRSEQDRNCSLCADNIEGKTFVSTVNSLVFQQIDANWNIQCWLKGDCLKFICYVESLFKN
LFRNYNYKVHLLYVLPEVLEDSPLVPQKGSFQMVHCNCSVHECCECLVPVPTAKLNDTLLMCLKITSGGVIFQSP
LMSVQFINMVKPDPPLGLHMEITDDGNLKISWSSPPLVPFPLQYQVKYSENSTTVIREADKIVSATSLLVDSILP
GSSYEVQVRGKRLDGPGIWSDWSTPRVFTTQDVIYFPPKILTSVGSNVSFHCIYKKENKIVPSKEIVWWWNLAEK
IPQSQYDVVSDHVSKVTFFNLNETKPRGKFTYDAVYCCNEHECHRYAELYVIDVNINISCETDGYLTGMTCRWS
TSTIQSLAESTLQLRYHRSSLYCSDIPSIHPISEPKDCYLQSDGFYECIFQPIFLLSGYTMWIRINHSLGSLDSP
PTCVLPDSVVKPLPPSSVKAETITINIGLLKISWEKPVFPENNLOFQIRYGLSGKEVQWKMYEVYDAKSKSVSLPV
PDLCAVYAVQVRCKRLDGLGYWSNWSNPAYTVVMDIKVPMRGPEFWRIINGDTMKKEKNVTLLWKPLMKNDLCS
VQRYVINHHTSCNGTWSEDVGNHTKFTFLWTEQAHTVTVLAINSIGASVANFNLTFSWPMSKVNIVQSL SAYPLN
SSCVIVSWILSPSDYKLMYFIIEWKNLNEDGEIKWLRISSSVKYYIHDHFPIEKYQFSLYP IFMEGVGKPKII
NSFTQDDIEKHQSDAGLYVIVPVISSSILLGTLTLLISHQRMKKLFWEDVPNPKNCSWAQGLNFKRTDIL

957/2777
FIGURE 853

CCTGTGAACACTATAGCGCTGAGAGAGACAGTCTGAAAGCAGAGGAAGACATCGATCAGTAACACCAAGAGACAC
CAAAGTTGAAAGTTTTGTTTTCTTTCCCTCTGTTTTATTTTTCCCCGTGTGTCCCTACTATGGTCAGAAAGCCT
GTTGTGTCCACCATCTCCAAAGGAGGTTACCTGCAGGGAAATGTTAACGGGAGGCTGCCTTCCCTGGGCAACAAG
GAGCCACCTGGGCAGGAGAAAGTGCAGCTGAAGAGGAAAGTCACTTTACTGAGGGGAGTCTCCATTATCATTGGC
ACCATCATTGGAGCAGGAATCTTCATCTCTCCTAAGGGCGTGCTCCAGAACACGGGCAGCGTGGGCATGTCTCTG
ACCATCTGGACGGTGTGTGGGGTCTGTCACTATTTGGAGCTTTGTCTTATGCTGAATTGGGAACAACATAAAAG
AAATCTGGAGGTCATTACACATATATTTTGGAAAGTCTTTGGTCCATTACCAGCTTTTGTACGAGTCTGGGTGGAA
CTCCTCATAATACGCCCTGCAGCTACTGCTGTGATATCCCTGGCATTTTGGACGCTACATTCTGGAACCATTTTTT
ATTCAATGTGAAATCCCTGAACCTTGCGATCAAGCTCATTACAGCTGTGGGCATAACTGTAGTGATGGTCTCTAAAT
AGCATGAGTGTGAGCTGGAGCGCCCGGATCCAGATTTTCTTAACCTTTTGCAAGCTCACAGCAATTCTGATAATT
ATAGTCCCTGGAGTTATGCAGCTAATTAAAGGTCAAACGCAGAACTTTAAAGACGCCTTTTCAGGAAGAGATTCA
AGTATTACGCGTTGCCACTGGCTTTTTATTATGGAATGTATGCATATGCTGGCTGGTTTTACCTCAACTTTGTT
ACTGAAGAAGTAGAAAAACCCTGAAAAAACCAATTCCCCTTGCAATATGTATATCCATGGCCATTGTCACCATTGGC
TATGTGCTGACAAATGTGGCCTACTTTACGACCATTAAATGCTGAGGAGCTGCTGCTTTCAAATGCAGTGGCAGTG
ACCTTTTCTGAGCGGCTACTGGGAAATTTCTCATTAGCAGTTCCGATCTTTGTTGCCCTCTCCTGCTTTGGCTCC
ATGAACGGTGGTGTGTTTGCTGTCTCCAGGTTATTCTATGTTGCGTCTCGAGAGGGTCACCTTCCAGAAATCCTC
TCCATGATTCATGTCCGCAAGCACACTCCTCTACCAGCTGTTATTGTTTTGCACCCCTTTGACAATGATAATGCTC
TTCTCTGGAGACCTCGACAGTCTTTTGAATTTCTCAGTTTGGCCAGGTGGCTTTTTATTGGGCTGGCAGTTGCT
GGGCTGATTTATCTTCGATACAAATGCCAGATATGCATCGTCTTTCAAGGTGCCACTGTTTCATCCCAGCTTTG
TTTTCTTCACATGCCTCTTCATGGTTGCCCTTTCCCTCTATTCCGACCCATTTAGTACAGGGATTGGCTTCGTC
ATCACTCTGACTGGAGTCCCTGCGTATTATCTCTTTATTATATGGGACAAGAAACCCAGGTGGTTTAGAATAATG
TCAGGGTTCCCTAGCACTGATGCCTGCACAAGCATGTGATATGTGAAATAAAATGGATTCTTCTATAGCTAAATGA
GTTCCCTCTGGGGAGAGTTCTGGTACTGCAATCACAATGCCAGATGGTGTATTATGGGCTATTTGTGTAAGTAAGT
GGTAAGATGCTATGAAGTAAGTGTGTTTGTGTTTTCATCTTATGGAACTCTTGATGCATGTGCTTTTGTATGGAAT
AAATTTTGGTGCAATATGATGTCACTTTGCATTGAATTGAATTTTGGTTGTATTTATATGTATTATACCT
GTCACGCTTCTAGTTGCTTCAACCATTTTATAACCATTTTGTACATATTTTACTTGAAAATATTTTAAATGGAA
ATTTAAATAAACATTTGATAGTTTACATAATAAAAAAAAAAAAAAAAAAAAA

958/2777
FIGURE 854

MVRKPVVSTISKGGYLQGNVNGRLPSLGNKEPPGQEKVQLKRKVTLLRGVSIIGTIIGAGIFISPKGVLQNTGS
VGMSLTIWTVCGVLSLFGALSYAELGTTIKKSGGHYTYILEVFGPLPAFVRVWVELLIIRPAATAVISLAFGRYI
LEPFFIQCEIPELAIKLITAVGITVVMVLNSMSVSWASARIQIFLTFCKLTAILIIIVPGVMQLIKGQTQNFKDAF
SGRDSSITRLPLAFYYGMYAYAGWFYLNFEVTEEVENPEKTIPLAICISMAIVTIGYVLTNVAYFTTINAEELLS
NAVAVTFSERLLGNFSLAVPIFVALSCFGSMNGGVFAVSRLFYVASREGHLPEILSMIHVRKHTPLPAVIVLHPL
TMIMLFSGDLDSLLNFLSFARWLFIGLAVAGLIYLRKCPDMHRPFKVPLFIPALFSFTCLFMVALSLYSDPFST
GIGFVITLTGVPAYYLFIIWDKKPRWFRIMSGFLALMPAQACDM

959/2777
FIGURE 855

CCGGCACGAGAGGAGTTGTGAGTTTCCAAGCCCCAGCTCACTCTGACCACTTCTCTGCCTGCCCAGCATCATGAA
GGGCTTGCAGCTGCCCTCCTTGTCTCGTCTGCACCATGGCCCTCTGCTCCTGTGCACAAGTTGGTACCAACAA
AGAGCTCTGCTGCCTCGTCTATACCTCCTGGCAGATTCCACAAAAGTTCATAGTTGACTATTCTGAAACCAGCCC
CCAGTGCCCCAAGCCAGGTGTCATCCTCCTAACCAAGAGAGGCCGGCAGATCTGTGCTGACCCCAATAAGAAGTG
GGTCCAGAAATACATCAGCGACCTGAAGCTGAATGCCTGAGGGGGCCTGGAAGCTGCGAGGGCCCAGTGAAC TTGG
TGGGCCCAGGAGGGAACAGGAGCCTGAGCCAGGGCAATGGCCCTGCCACCCTGGAGGCCACCTCTTCTAAGAGTC
CCATCTGCTATGCCCAGCCACATTAAC TAAC TTTAATCTTAGTTTATGCATCATATTTTATTTTGAAATTGATTT
CTATTGTTGAGCTGCATTATGAAATTAGTATTTTCTCTGACATCTCATGACATTGTCTTTATCATCCTTTCCCCT
TTCCCTTCAACTCTTCGTACATTCAATGCATGGATCAATCAGTGTGATTAGCTTTCTCAGCAGACATTGTGCCAT
ATGTATCAAATGACAAATCTTTATTGAATGGTTTTGCTCAGCACCACCTTTTAATATATTGGCAGTACTTATTAT
ATAAAAGGTAAACCAGCATTCTCACTGTGAAAAAAAAAAAAAAAAAAAAAAAAA

960/2777
FIGURE 856

MKGLAAALLVLVCTMALCSCAQVGTNKELCCLVYTSWQIPQKFIVDYSETSPQCPKPGVILLTKRGRQICADPNK
KWVQKYISDLKLN

961/2777
FIGURE 857

GGCACGAGGTCGCTTTCCCTGCGCAGAGTCTGCGGAGGGGCTCGGCTGCACCGGGGGGATCGCGCCTGGCAGACCC
CAGACCGAGCAGAGGGCAGCCAGCGCGCTCGGGAGAGGCTGCACCGCCGCGCCCCCGCCTAGCCCTTCCGGATCC
TGCGCGCAGAAAAGTTTTCAATTTGCTGTATGCCATCCTCGAGAGCTGTCTAGGTTAACGTTTCGCACTCTGTGTATA
TAACCTCGACAGTCTTGGCACCTAACGTGCTGTGCGTAGCTGCTCCTTTGGTTGAATCCCCAGGCCCTTGTTGGG
GCACAAGGTGGCAGGATGCTCTCAGTGGTACGAACTTCAGCAGCTTGACTCAAAATTCCTGGAGCAGGTTACACAG
CTTTATGATGACAGTTTTCCCATGGAAATCAGACAGTACCTGGCACAGTGGTTAGAAAAGCAAGACTGGGAGCAC
GCTGCCAATGATGTTTTCAATTTGCCACCATCCGTTTTTCATGACCTCCTGTACAGCTGGATGATCAATATAGTCGC
TTTTCTTTGGAGAATAACTTCTTGCTACAGCATAACATAAGGAAAAGCAAGCGTAATCTTCAGGATAATTTTCAG
GAAGACCCAATCCAGATGTCTATGATCATTACAGCTGTCTGAAGGAAGAAAGGAAAATTCTGGAAAACGCCCAG
AGATTTAATCAGGCTCAGTCGGGGAATATTCAGAGCACAGTGTATGTTAGACAAACAGAAAGAGCTTGACAGTAAA
GTCAGAAATGTGAAGGACAAGGTTATGTGTATAGAGCATGAAATCAAGAGCCTGGAAGATTTACAAGATGAATAT
GACTTCAAATGCAAAACCTTGCAAGACAGAGAACACGAGACCAATGGTGTGGCAAAGAGTGATCAGAAAACAAGAA
CAGCTGTTACTCAAGAAGATGTATTTAATGCTTGACAATAAGAGAAAGGAAGTAGTTACACAAAATAATAGAGTTG
CTGAATGTCAGTGAACCTTACCCAGAATGCCCTGATTAATGATGAAGTGGAGTGGAAGCGGAGACAGCAGAGC
GCCTGTATTGGGGGGCGCCCAATGCTTGCTTGATCAGCTGCAGAACTGGTTCACTATAGTTGCGGAGAGTCTG
CAGCAAGTTCGGCAGCAGCTTAAAAAGTTGGAGGAATTGGAACAGAAATACACCTACGAACATGACCTATCACA
AAAAACAAACAAGTGTTATGGGACCGCACCTTCAGTCTTTTCCAGCAGCTCATTAGAGCTCGTTTTGTGGTGGA
AGACAGCCCTGCATGCCAACGCACCTTCAGAGGCCGCTGGTCTTGAAGACAGGGGTCCAGTTCAGTGTGAAGTTG
AGACTGTTGGTGAAATTGCAAGAGCTGAATTATAATTTGAAAGTCAAAGTCTTATTTGATAAAGATGTGAATGAG
AGAAATACAGTAAAGGATTTAGGAAGTTCAACATTTGGGCACGCACACAAAAGTGATGAACATGGAGGAGTCC
ACCAATGGCAGTCTGGCGGCTGAATTCGGCACCTGCAATTGAAAGAACAGAAAAATGCTGGCACCAGAACGAAT
GAGGGTCCTCTCATCGTTACTGAAGAGCTTCACTCCCTTAGTTTTGAAACCAATTGTGCCAGCCTGGTTTGGA
ATTGACCTCGAGACGACCTCTCTGCCCCTGTGGTGATCTCAACGTCAGCCAGCTCCCGAGCGGTTGGGCCTCC
ATCCTTTGGTACAACATGCTGGTGGCGGAACCCAGGAATCTGTCTTCTTCTGACTCCACCATGTGCACGATGG
GCTCAGCTTTCAGAAGTGCTGAGTTGGCAGTTTTCTTCTGTACCAAAAAGAGGTCTCAATGTGGACCAGCTGAAC
ATGTTGGGAGAGAAGCTTCTTGGTCCTAACGCCAGCCCCGATGGTCTCATTCCGTGGACGAGGTTTTGTAAGGAA
AATATAAATGATAAAAAATTTCCCTTCTGGCTTTGGATTGAAAGCATCCTAGAACTCATTAAAAAACACCTGCTC
CCTCTCTGGAATGATGGGTGCATCATGGGCTTCATCAGCAAGGAGCGAGAGCGTGCCCTGTTGAAGGACCAGCAG
CCGGGGACCTTCTGTGCTGCGGTTCAAGTGAAGCTCCCGGAAGGGGCCATCACATTACATGGGTGGAGCGGTCC
CAGAACGGAGGCGAACCTGACTTCCATGCGGTTGAACCTTACACGAAGAAAGAACTTTCTGCTGTTACTTTCCCT
GACATCATTGCAATTACAAAGTCATGGCTGCTGAGAATATTCCTGAGAATCCCCTGAAGTATCTGTATCCAAAT
ATTGACAAAGACCATGCCTTTGGAAAGTATTACTCCAGGCCAAAGGAAGCACCAGAGCCAATGGAACCTTGATGGC
CCTAAAGGAAGTGGATATATCAAGACTGAGTTGATTTCTGTGTCTGAAGTGTAAAGTGAACACAGAAGAGTGACAT
GTTTACAAACCTCAAGCCAGCCTTGCTCCTGGCTGGGGCCTGTTGAAGATGCTTGTATTTTACTTTTCCATTGTA
ATTGCTATCGCCATCACAGCTGAACTTGTGAGATCCCCGTGTTACTGCCTATCAGCATTTTACTACTTTAAAAA
AAAAAAAAAAAAA

962/2777
FIGURE 858

MSQWYELQQLD SKFLEQVHQLYDDSF P MEIRQYLAQWLEKQDWEHAANDVSFATIRFHDLLSQLDDQYSRFSLEN
NELLQHNIRKSKRNLDNFQEDPIQMSMIIYSCLKEERKILENAQRFNQAQSGNIQSTVMLDKQKELDSKVRNVK
DKVMCIEHEIKSLEDLQDEYDFKCKTLQNREHETNGVAKSDQKQEQLLLKKMYLMLDNKRKEVVHKIIELLNVTE
LTQNALINDELVEWKRRQQSACIGGPPNACLDQLQNWFTTIVAESLQQVRQQLKKLEELEQKYTYEHDPITKNKQV
LWDRTFSLFQQLIQSSFVVERQPCMPHPQRPLVLKTGVQFTVKLRLLVKLQELNYNLKVKVLFDKDVNERNTVK
GFRKFNILGHTKVMNMEESTNGSLAAEFRHLQLKEQKNAGTRTNEGPLIVTEELHSLSFETQLCQPGGLVIDLET
TSLPVVVVISNVSQLPSGWASILWYNMLVAEPRNLSFFLTTPPCARWAQLSEVL SWQFSSVTKRGLNVDQLNMLGEK
LLGPNASPDGLIPWTRFCKENINDKNFPFWLWIESILELIKHHLLPLWNDGCIMGFISKERERALLKDQQPGTFL
LRFSESSREGAITFTWVERSQNGGEPDFHAVEPYTKKELSAVTFPDIIRNYKVMAAENIPENPLKYLYPNIDKDH
AFGKYYSRPKEAPEPEMELDGPKGTGYIKTELISVSEV

963/2777
FIGURE 859

GGGCGTCTTGCAATGATGGGGGAGGACTCTGCTGCTTCTTAAGCTCCAGCGTCTCAAGCCAGGGCGAGACAGCCC
GCCGGCCGCCCCGATCTCCACCTGCCACCCAGAGCTGGGACAGCAGCCGGGCTGCGGCACTGGGAGGGAGACCC
CACAGTGGCCTCTTCTGCCACCCACGCCCCACCCCTGGCATGGCCGACCAGCTGACTGAGGAGCAGGTCACAGA
ATTCAAGGAGGCCTTCTCCCTGTTTGACAAGGATGGGGACGGCTGCATCACCACCCGCGAGCTGGGCACGGTCAT
GCGGTCCCTGGGCCAGAACCCACGGAGGCCGAGCTGCGGGACATGATGAGTGAGATCGACCGGGACGGCAACGG
CACCGTGGACTTCCCCGAGTTCCTGGGCATGATGGCCAGGAAGATGAAGGACACGGACAACGAGGAGGAGATCCG
CGAGGCCTTCCGCGTGTTTCGACAAGGACGGCAACGGCTTCGTAGCGCCGCCGAGCTGCGACACGTCATGACCCG
GCTGGGGGAGAAGCTGAGTGACGAGGAGGTGGACGAGATGATCCGGGCCGCGGACACGGACGGAGACGGACAGGT
GAACTACGAGGAGTTTGTCCGTGTGCTGGTGTCCAAGTGAGGCCGGCGCCACCATGCTCCTGGGCGCCACGCG
GCCACAGGGCAAGAACCCGGGGCCTCCCGCCTCCTCCCCATCCCCCTGCCTCCCCTGGGCACTGTGGCTTCCT
CCTGCGCCTGGTTGATTGAGCCACCTCTCTGCATCCCGCTTCCCGCTCTCTTCTCTGCACTCCTGCCGACCTT
CCCACCTGCTCATCTGAATGACACGGAACGCTCCCACTGCAGGCAAACCGTGACGCCCTCCCCACTCGGGAGAAG
CAGAGCTGACCTTAGGACCGAGCACCAGGGCAGGTTGCGCTGACTCTGCGGCCCTCCAGGACGGACACCGGGTGA
CCCCTTAGGGCACCCAGGCAAGATCCCTAAGAGGCACCCAATGCCAGGCCAGGGGGGCTGCAGCCCTCAGCCCC
CGCCAGGATTCCCGCAGGCTCCTGGACTGGAAGCTCCCTCCGCGGTGCGATTCTGGAGGGTGGGAGGCATCTTGG
CCTGCAGTAAGCGGTGCTGACGGGGACTCTGGCCACAGAGGTCAGGCCTCCTGAAAACAGCACTGCCTTCCGCGC
TGCCCCAGCTTGCCCCATTCTTGTCCGCCAACCCACCGTGATTATCTTCTGAAGCTGGGAGTGAACTGGGTC
AGCTGTAACTGTTTCTTATTCATCTGGAAGGAGGGAGGCTTGGATGAGCAGGGGATGAGAGCTGCAGGGAAATAA
ATGAGATATTCGTCCTT

964/2777
FIGURE 860

MSEIDRDGNGTVDFPEFLGMMARKMKDIDNEEEIREAFRVFDKDGNGFVSAAELRHVMTRLGEKLSDEEVDEMIR
AADTDGDGQVNYEEFVRVLVSK

965/2777
FIGURE 861

GGGAGCAGCTAGGGCGCGGGTCTCCCTCCTCCCGAGTTTGGAAACGGCTGAAGTTCACCTTCCAGCCCCTAGCGC
CGTTTCGCGCCGCTAGGCCTGGCTTCTGAGGCGGTTGCGGTGCTCGGTCGCCGCTAGGCGGGCAGGGTGCGAGC
AGGGGCTTCGGGCCACGCTTCTCTTGGCGACAGGATTTTGCTGAAGTCCGTCCGGGAAACGGAGGAAAAAAGAG
TTGCGGGAGGCTGTGCGCTAATAACGGTCTTGATACATATTTGCCAGACTTCAAGATTTTCAAAAAAGGGTGAA
AGAGAAGATTGCAACTTTGAGTCAGACCTGTAGGCCTGATAGACTGATTAAACCACAGAAGGTGACCTGCTGAGA
AAAGTGGTACAAATACTGGGAAAAACCTGCTCTTCTGCGTTAAGTGGGAGACAATGTCACAAAGTTAAAAAGCTCTT
ATTCCTATGATGCCCCCTCGGATTTTCATCAATTTTTTCATCCTTGGATGATGAAGGAGATACTCAAAACATAGATT
CATGGTTTGAGGAGAAGGCCAATTTGGAGAATAAGTTACTGGGGAAGAATGGAAGTGGAGGGCTTTTTTCAGGGCA
AAACTCCTTTGAGAAAGGCTAATCTTCAGCAAGCTATTGTACACCTTTGAAACCAGTTGACAACACTTACTACA
AAGAGGCAGAAAAAGAAAAATCTTGTGGAACAATCCATTCCGTCAAATGCTTGTCTTCCCTGGAAGTTGAGGCAG
CCATATCAAGAAAACTCCAGCCAGCCTCAGAGAAGATCTCTTAGGCTTTCTGCTCAGAAGGATTTGGAACAGA
AAGAAAAGCATCATGTAAAAATGAAAGCCAAGAGATGTGCCACTCCTGTAATCATCGATGAAATTCTACCTCTA
AGAAAAATGAAAGTTTCTAACAACAAAAAGAAGCCAGAGGAAGAAGGCAGTGCTCATCAAGATACTGCTGAAAAGA
ATGCATCTTCCCCAGAGAAAGCCAGGGTAGACATACTGTGCCTTGTATGCCACCTGCAAAGCAGAAGTTTCTAA
AAAGTACTGAGGAGCAAGAGCTGGAGAAGAGTATGAAAATGCAGCAAGAGGTGGTGGAGATGCGGAAAAAGAATG
AAGAATTCAAGAACTTGCTCTGGCTGGAATAGGGCAACCTGTGAAGAAATCAGTGAGCCAGGTACCAAATCAG
TTGACTTCCACTTCCGCACAGATGAGCGAATCAAACAACATCCTAAGAACCAGGAGGAATATAAGGAAGTGAAC
TTACATCTGAACTACGAAAGCATCCTTCATCTCCTGCCGAGTGACTAAGGGATGTACCATTGTTAAGCCTTTCA
ACCTGTCCCAAGGAAAGAAAAGAACATTTGATGAAACAGTTTCTACATATGTGCCCTTGCACAGCAAGTTGAAG
ACTTCCATAAACGAACCCCTAACAGATATCATTGAGGAGCAAGAAGGATGATATTAACCTGTTACCCTCCAAAT
CTTCTGTGACCAAGATTTGCAGAGACCCACAGACTCCTGTACTGCAAAACAAACACCGTGACGGGCTGTGACCT
GCAAAAGTACAGCAGAGCTGGAGGCTGAGGAGCTCGAGAAATTGCAACAATACAAATTCAAAGCACGTGAACTTG
ATCCCAGAATACTTGAAGGTGGGCCCATCTTGCCCAAGAAACCACCTGTGAAACCACCCACCGAGCCTATTGGCT
TTGATTTGGAATTTGAGAAAAGAAATCCAGGAGCGAGAATCAAAGAAGAAAACAGAGGATGAACACTTTGAATTC
ATTCCAGACCTTGCCCTACTAAGATTTTGGAAGATGTTGTGGGTGTTCTCTGAAAAGAAGGTACTTCCAATCACC
TCCCCAAGTCACCAGCCTTTGCATTTGAAGAACAGAATTCGAATGCCACCAAAGAAGATGAGGAAGAGGACGAAC
CGGTAGTGATAAAAGCTCAACCTGTGCCACATTATGGGGTGCCTTTTAAAGCCCCAAATCCAGAGGCAAGAACTG
TGGAATATGCCCCTTCTCGTTTGATTTCTCGAGACAAAGAACGTGAGTTACAGAAGGAGAAGAAAATAAAAGAAC
TGCAGAAAGGGGAGGTGCCCAAGTTCAAGGCACTTCCCTTGCCCTCATTTTGACACCATTAACTGCCAGAGAAGA
AGGTAAAGAATGTGACCCAGATTGAACCTTTCTGCTTGAGACTGACAGAAGAGGTGCTCTGAAGGCACAGACTT
GGAAGCACCAGCTGGAAGAAGAACTGAGACAGCAGAAAGAAGCAGCTTGTTTTCAAGGCTCGTCCAAACACCGTCA
TCTCTCAGGAGCCCTTTGTTCCCAAGAAAGAGAAGAAATCAGTTGCTGAGGGCCTTTCTGTTTCTCTAGTTTCAGG
AACCTTTTTCAGCTGGCTACTGAGAAGAGAGCCAAAGAGCGGCAGGAGCTGGAGAAGAGAATGGCTGAGGTAGAAG
CCCAGAAAGCCCAGCAGTTGGAGGAGGCCAGACTACAGGAGGAAGAGCAGAAAAAAGAGGAGCTGGCCAGGCTAC
GGAGAGAACTGGTGCATAAGGCCAAATCCAATACGCAAGTACCAGGGTCTGGAGATAAAGTCAAGTGACCAGCCTC
TGACTGTGCCTGTATCTCCCAAAATCTCCACTCGATTCCACTGCTAAACTCAGCTGTGAGCTGCGGATACCGCCC
GGCAATGGGACCTGCTCTTAACCTCAAACCTAGGACCGTCTTGCTTTGTCATTGGGCATGGAGAGAACCCATTTT
TCCAGACTTTTACCTACCCGTGCCTGAGAAAGCATACTTGACAACCTGTGGACTCCAGTTTTGTTGAGAATTGTTT
TCTTACATTACTAAGGCTAATAATGAGATGTAACCTCATGAATGTCTCGATTAGACTCCATGTAGTTACTTCCTTT
AAACCATCAGCCGGCCTTTTATATGGGTCTTCACTCTGACTAGAATTTAGTCTCTGTGTCAGCACAGTGTAACT
CTATTGCTATTGCCCCCTTACGACTCTCACCTCTCCCCACTTTTTTTAAAAATTTTAAACCAGAAAAATAAGATAG
TTAAATCCTAAGATAGAGATTAAAGTCATGGTTTAAATGAGGAACAATCAGTAAATCAGATTCTGTCTCTTCTCT
GCATACCGTGAATTTATAGTTAAGGATCCCTTTGCTGTGAGGGTAGAAAACCTCACCAACTGCACCAGTGAGGAA
GAAGACTGCGTGGATTATGAGGAGCCTCACAGCAGCCACGCAGCAGGCTCTGGGTGGGGCTGCCGTTAAGGCAC
GTTCTTTCTTACTGGTGCTGATAACAACAGGGAACCGTGCAGTGTGCATTTTAAAGACCTGGCCTGGAATAAATA
CGTTTTGTCTTTCCCTCAAAAAAAAAAAAAAAAAAAAAA

966/2777
FIGURE 862

MSQVKSSYSYDAPSDFINFSSLDDEGDTQNIDSWFEEKANLENKLLGKNGTGGLFQGKTPLRKANLQQAIVTPLK
PVDNTYYKEAEKENLVEQSIPSNACSSLEVEAAISRKTPAQPPRRSLRLSAQKDLEQKEKHHVMMKAKRCATPVI
IDEILPSKKMKVSNKKKPEEEGSAHQDTAEKNASSPEKAKGRHTVPCMPPAKQKFLKSTEEQELEKSMKMQQEV
VEMRKKNEEFKKLALAGIGQPVKKSVSQVTKSVDFHFRTDERIKQHPENQEYKEVNFTSELRKHPSSPARVTKG
CTIVKPFNLSQGKKRTFDETVSTYVPLAQQVEDFHKRTPNRYHLRSKKDDINLLPSKSSVTIKICRDPQTPVLQTK
HRARAVTCKSTAELEAELEKLQQYKFKARELDPRILEGGPILPKKPPVKPPTPIGFDLEIEKRIQERESKKKT
EDEHFEFHSRPCPTKILEDVVGVPKVKVLPITVPKSPAFALKNRIRMPTKEDEEEDEPVVIAQPVPHYGVFPKP
QIPEARTVEICPFSFDSRDKERQLQKEKKIKELQKGEVPKFKALPLPHFDTINLPEKKVKNVTOIEPFCLETDRR
GALKAQTWKHQLEEEELRQQKEAACFKARPNTVISQEPFVPKKEKKSVAEGLSGSLVQEPFQLATEKRAKERQELE
KRMAEVEAQKAQQLEEARLQEEQKKEELARLRRELHVHKANPIRKYQGLEIKSSDQPLTVFVSPKFFSTRFHC

967/2777
FIGURE 863

CGCCGAGATCGGGTGCCCGGGATGAGCCTCATCCGGAAAAAGGGCTTCTACAAGCAGGACGTCAACAAGACCGCC
TGGGAGCTGCCCAAGACCTACGTGTCCCCGACGCACGTGCGCAGCGGGGCCTATGGCTCCGTGTGCTCGGCCATC
GACAAGCGGTTCAGGGGAGAAGGTGGCCATCAAGAAGCTGAGCCGACCCTTTCAGTCCGAGATCTTCGCCAAGCGC
GCCTACCGGGAGCTGCTGCTGCTGAAGCACATGCAGCATGAGAACGTCAATTGGGCTCCTGGATGTCTTCACCCCA
GCCTCCTCCCTGCGCAACTTCTATGACTTCTACCTGGTGTATGCCCTTCATGCAGACGGATCTGCAGAAGATCATG
GGGATGGAGTTCAGTGAGGAGAAGATCCAGTACCTGGTGTATCAGATGCTCAAAGGCCTTAAGTACATCCACTCT
GCTGGGGTTCGTGCACAGGGACCTGAAGCCAGGCAACCTGGCTGTGAATGAGGACTGTGAAGTGAAGATTCTGGAT
TTTGGGCTGGCGCGACATGCAGACGCCGAGATGACTGGCTACGTGGTGACCCGCTGGTACCGAGCCCCCGAGGTG
ATCCTCAGCTGGATGCACACTACAACCAGACAGTGGATATCTGGTCTGTGGGCTGTATCATGGCAGAGATGCTGACA
GGGAAAACCTCTGTTTCAGGGGGAAAGATTACCTGGACCAGCTGACCCAGATCCTGAAAGTGACCGGGGTGCCTGGC
ACGGAGTTTGTGCAGAAGCTGAACGACAAAGCGGCCAAATCCTACATCCAGTCCCTGCCACAGACCCCCAGGAAG
GATTTCACTCAGCTGTTCCACGGGGCCAGCCCCCAGGCTGCGGACCTGCTGGAGAAGATGCTGGAGCTAGACGTG
GACAAGCGCCTGACGGCCGCGCAGGCCCTCACCCATCCCTTCTTTGAACCCTTCCGGGACCCCTGAGGAAGAGACG
GAGGCCCAGCAGCCGTTTGATGATTCCCTTAGAACACGAGAAACTCACAGTGGATGAATGGAAGCAGCACATCTAC
AAGGAGATTGTGAACCTCAGCCCCATTGCCCCGAAGGACTCACGGCGCCGGAGTGGCATGAAGCTGTAGGGACTC
ATCTTGATGGCACCGCCGGCCAGACACTGCCCAAGGACCAGTATTTGTCACTACCAAACCTCAGCCCTTCTTGGA
ATACAGCCTTTCAAGCAGAGGACAGAAGGGTCTTCTCCTTATGTGGGAAATGGGCCTAGTAGATGCAGAATTCA
AAGATGTCGGTTGGGAGAACTAGCTCTGATCCTAACAGGCCACGTTAAACTGCCCCATCTGGAGAATCGCCTGCA
GGTGGGGCCCTTTCTTCCCGCCAGAGTGGGGCTGAGTGGGCGCTGAGCCAGGCCGGGGGGCCTATGGCAGTGATG
CTGTGTTGGTTTCTAGGGATGCTCTAACGAATTACCACAAACCTGGTGGATTGAAACAGCAGAACTTGATTCCC
TTACAGTTCTGGAGGCTGGAAATCTGGGATGGAGGTGTTGGCAGGGCTGTGGTCCCTTTGAAGGCTCTGGGGAAG
AATCCTTCTTGGCTCTTTTCTAGCTTGTGGCGGCAGTGGGCAGTCCGTGGCATTCCCCAGCTTATTGCTGCATCA
CTCCAGTCTCTGTCTCTTCTGTTCTCTCCTCTTTTAACAACAGTCATTGGATTTAGGGCCCCACCCTAATCCTGTG
TGATCTTATCTTGATCCTTATTAATTAAACCTGCAAATACTCTAGTTCCAAATAAAAAAAAAAAAAAAAAA

968/2777
FIGURE 864

MSLIRKKGFYKQDVNKTAWELPKTYVSPTHVSGAYGSVCSAIDKRSGEKVAIKKLSRPFQSEIFAKRAYRELLL
LKHMQHENVIGLLDVFTPASSLRNFYDFYLVMPFMQTDLQKIMGMEFSEEKIQYLVYQMLKGLKYIHSAGVVHRD
LKPGNLAVNEDCELKILDFGLARHADAEMTGYVVTRWYRAPEVILSWMHYNQTVDIWSVGCIMAEMLTGKTLFRG
KDYLDQLTQILKVTGVPGETEFVQKLNDKAAKSYIQSLPQTTPRKDFQTQLFPRASPQAADLLEKMLELDVDKRLTAA
QALTHPFFEPFRDPEEETEAQQPFDDSLHEKLTVDDEWKQHIYKEIVNFSPIARKDSRRRSGMKL

969/2777
FIGURE 865

GGACACGAGGCTGGGACCGGAGTGGGGAGCGCGGCGTGGAGGTTGCCACCCGGCGCGGATGGCGGAGAGATCAGAAG
CCTCTTCCCCAAGCCGAGCCAACCTCAGCGGGGACCCGGGCTCAGGGACGCGGCGGGCGGGCGGCGACTGCAGT
GGCTGGACGATGGCAGCGTCCGCCGGAGCCGGGGCGGTGATTGCAGCCCCAGACAGCCGGCGCTGGCTGTGGTCG
GTGCTGGCGGGCGGCGCTTGGGCTCTTGACAGCTGGAGTATCAGCCTTGGAAGTATATACGCCAAAAGAAATCTTC
GTGGCAAATGGTACACAAGGGAAGCTGACCTGCAAGTTCAAGTCTACTAGTACGACTGGCGGGTTGACCTCAGTC
TCCTGGAGCTTCCAGCCAGAGGGGGCCGACACTACTGTGTCGTTTTTCCACTACTCCCAAGGGCAAGTGTACCTT
GGGAATTATCCACCATTATAAAGACAGAATCAGCTGGGCTGGAGACCTTGACAAGAAAGATGCATCAATCAACATA
GAAAATATGCAGTTTATACACAATGGCACCTATATCTGTGATGTCAAAAACCCCTCCTGCATCGTTGTCCAGCCT
GGACACATTAGGCTCTATGTCGTAGAAAAAGAGAATTTGCCGTGTGTTTCCAGTTTGGGTAGTGGTGGGCATAGTT
ACTGCTGTGGTCCTAGGTCTCACTCTGCTCATCAGCATGATTCTGGCTGTCTCTATAGAAGGAAAAACCTCAA
CGGGATTACACTGGCTGCAGTACATCAGAGAGTTTGTACCAGTTAAGCAGGCTCCTCGGAAGTCCCCCTCCGAC
ACTGAGGGTCTTGTAAGAGTCTGCCCTTCTGGATCTCACCAGGGGCCAGTCATATATGCACAGTTAGACCCTCC
GGCGGACATCACAGTGACAAGATTAACAAGTCAGAGTCTGTGGTGTATGCGGATATCCGAAAGAATTAAGAGAAT
ACCTAGAACATATCCTCAGCAAGAAACAAAACCAAACCTGGACTCTCGTGCAGAAAATGTAGCCATTACCACATT
TAGCCTTGGAGACCCAGGCAAGGACAAGTACACGTGTACTCACAGAGGGAGAGAAAAGATGTGTACAAAGGATATG
TATAAATATCTATTTAGTCATCCTGATATGAGGAGCCAGTGTGTCATGATGAAAAGATGGTATGATTCTACATA
TGTACCCATTGTCTTGCTGTTTTTGTACTTTCTTTTCAGGTCATTTACAATTGGGAGATTTCAGAAACATTCTT
TCACCATCATTAGAAATGGTTTGCCTTAATGGAGACAATAGCAGATCCTGTAGTATTTCCAGTAGACATGGCCT
TTTAATCTAAGGGCTTAAGACTGATTAGTCTTAGCATTTACTGTAGTTGGAGGATGGAGATGCTATGATGGAAGC
ATACCCAGGGTGGCCTTTAGCACAGTATCAGTACCATTATTTGTCTGCCGCTTTTAAAAAATACCCATTGGCTA
TGCCACTTGAAAACAAATTTGAGAAGTTTTTTTTGAAGTTTTTCTCACATAAAATATGGGGCAATTGTTAGCCTTACA
TGTTGTGTAGACTTACTTTAAGTTTGCACCCCTTGAAATGTGTACATCAATTTCTGGATTACATAATAGCAAGATT
AGCAAAGGATAAATGCCGAAGGTCACCTTCACTCTGGACACAGTTGGATCAATACTGATTAAAGTAGAAAATCCAAG
CTTTGCTTGAGAACTTTTGTAACTGGAGAGTAAAAAGTATCGGTTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAA

970/2777
FIGURE 866

MAASAGAGAVIÄAPDSRRWLWSVLAAALGLLTÄGVSALEVYTPKEIFVANGTQGKLTCKFKSTSTTGGLTSVSWŠ
FQPEGADTTVSFFHYSQGQVYLGNYPPFKDRISWAGDLDKKDASINIENMQFIHNGTYICDVKNPPDIVVQPGHI
RLYVVEKENLPVFPVWVVVGIVTAVVLGLTLLISMILAVLYRRKNSKRDTGCTSESLSPVKQAPRKSPSDTEG
LVKSLPSGSHQGPVIYAQLDHSGGHHSDKINKSESVVYADIRKN

971/2777
FIGURE 867

GGGGGGTGTGTTGGAGAGCCCGGACTGGATGCCCCTAGAACTCCTGTGCTGTGAACAGTGAGAGAGTTTTCTTCAT
TTTGAGGAACCCTAAACACCTATCTTTCCCAAGGCAACCTGTCTGGACTGAGCATTCTCTGACTTGACATAACT
TCCCATCCAGCCAGGAGTCTGCACTCTTCAGTCTTTGCAGGCAGTAGCAGAATCCCATGGTAGCCAGGTGGGTGA
AGGGGAGCGAGGACGTTCTACCTGCCTTGAAGAAGACACCTGACCTGCGGAGTGAGTGACCAGTGTTCAGAGC
CTGGCAATGGATGCCATTACATCGGCATGTCCAGCACCCCCCTGGTGAAGCACACTGCTGGGGCTGGGCTCAAG
GCCAACAGACCCCGCGTCATGTCCAAGAGTGGGCACAGCAACGTGAGAATTGACAAAGTGGATGGCATATACCTA
CTCTACCTGCAAGACCTGTGGACCACAGTTATCGACATGAAGTGGAGATACAAACTCACCTGTTTCGCTGCCACT
TTTGTGATGACCTGGTTCCCTTTTGGAGTCATCTACTATGCCATCGCGTTTATTTCATGGGGACTTAGAACCCGGT
GAGCCCATTTCAAATCATACCCCTGCATCATGAAAGTGGACTCTCTACTGGGGCGTTTCTCTTTTCCCTGGAA
TCCAGACAACCATTGGCTATGGAGTCCGTTCCATCACAGAGGAATGTCCTCATGCCATCTTCTGTTGGTTGCT
CAGTTGGTCATCACGACCTTGATTGAGATCTTCATCACCGGAACCTTCCTGGCCAAAATCGCCAGACCCAAAAAG
CGGGCTGAGACCATCAAGTTCAGCCACTGTGCAGTCATACCAAGCAGAATGGGAAGCTGTGCTTGGTGATTGAG
GTAGCCAATATGAGGAAGAGCCTCTTGATTGAGTGCCAGCTCTCTGGCAAGCTCCTGCAGACCCACGTCACCAAG
GAGGGGGAGCGGATTCTCCTCAACCAAGCCACTGTCAAATTCCACGTGGACTCCTCCTCTGAGAGCCCCCTCCTC
ATTCTGCCCATGACATTCTACCATGTGCTGGATGAGACGAGCCCCCTGAGAGACCTCACACCCCAAAACCTAAAG
GAGAAGGAGTTTGAGCTTGTGGTCCCTCCTCAATGCCACTGTGGAATCCACCAGCGCTGTCTGCCAGAGCCGAACA
TCTTATATCCAGAGGAAATCTACTGGGGTTTTGAGTTTGTGCCTGTGGTATCTCTCTCCAAAATGGAAAATAT
GTGGCTGATTTAGTCAGTTTGAACAGATTTCGGAAAAGCCAGATTGCACATTTTACTGTGCAGATTCTGAGAAA
CAGCAACTCGAGGAGAAGTACAGGCAGGAGGATCAGAGGAAAAGAGAAGTGAAGACACTTTTATTACAACAGAGC
AATGTCTGATCACAGGGGCGCCATCCAGGTTTAACCTGCAAGCTGTTTCCACATCAGAACTCCCTTCAAACACA
AAGATTGCTGTGAAAACGAAAATGTGTAGACGCACTCTCAAAAAGTGCACGGACATACAAAATCAATCTTTTCCT
TTGATCTTGTGGCTAAACCAGCATTCTGTGTTTGAGAGATTTCTGTTAGGTGCTTCGTCTGAAAGTGAAGTCT
CATAATTCAAATTGTATAAAATAAAGCTACATTCTAAGAGCTTGGTGTAGGGCAATTGGAATAATGTCCTGTTA
GATAAACAGACATTTAGCAATCCTGACATTAAAAGGAAATGTATTTCTATACAAGATTATTAGCTGTAATACAAG
ATATTTATTTAACCAATGACCTTATGGCTGAGAGTTGAATTGTGGTTCAGTATTCATTGATCTCACTGCTTTAAA
ACATGCTCTTTTTGTTCAAGCAGGAAAAATATTATATCTAATTATGTCTATGTGGTAATACCTAAAAAGAGGTAG
AGAGACTCTATGTTACAAAAATATAGTAATTTCAATTTTACCTTTCTTCAGTGGACTGAATTGTATGGAAGGAAA
TTGATCAGATCTGTAATTCACAACTGTGGAAACCTACACAAATGGGGCTGATGCCATTGTTTCTCTATTTTATT
TTATTTATTTTGAATCCACTATCTCTTTCCATTCAAATATTTCCATTCAAATGTGGTTCACAGACCCGCCAC
ATCAGCACCATCCGAGAGCTTATTAGTAATGTGTAGATTCTCATGTCCCAGCCAGACTTACAGAATTGGGGTCTG
TATCTTAACAAGAACCCAGATGATTTGTGTACAAATGAAAGTTCGAAAGCTGTGCTCTGGACAGTGTCTCAA
GCAACTTTCTGAAGCCGTGTGGAAAAGTGAAGTCTGTGTGGGTCCCGTATCCCTGTGGCATCCAGACCTGGCCCTCT
CTTCATTTTCAATTATTATTGGCCAATATTTCTTTAGCCATTTCATTTCTTATCTATTAATAATGGCTTGGCCATAA
AGGAACTGCATAGGATTATCCCTGACATTCCAAGAGCAAAATAAAGCTCTTGAGAGAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAA

972/2777
FIGURE 868

MDAIHIGMSSTPLVKHTAGAGLKANRPRVMSKSGHSNVRIDKVDGIYLLYLQDLWTTVIDMKWRYKLTLFAATFV
MTWFLFGVIYYAIAFIHGDLEPGEPISNHTPCIMKVDSLTAFLFSLESQTTIGYGVRSITEECPHAIFLLVAQL
VITTLIEIFITGTFLAKIARPKKRAETIKFSHCAVITKQNGKLCVIVANMRKSLLIQCQLSGKLLQTHVTKEG
ERILLNQATVKFHVDSSSESPFLILPMTFYHVLDETSPLRDLTPQNLKEKEFELVLLNATVESTSAVCQSRTSY
IPEEIYWGFVFPVVSLSKNGKYVADFSQFEQIRKSPDCTFYCADSEKQQLEEKYRQEDQRERELRLLLLQQSNV

973/2777
FIGURE 869

CCGCGGGACGCATGCGCACGGCGGACGGAGGCGAGCCGGCCGGGGCTTCCTCCCCGGCCGGCAGGGTGGACGGTG
GGCTCCAGATGGGATCAGAGCGGATGGAGATGCGGAAGCGGCAGATGCCCGCCGCCAGGACACACCAGGCGCCG
CCCCAGGCCAGCCCGGAGCGGGGAGTCGCGGGTCCAACGCATGCTGCTTCTGCTGGTGCTGCTGTTGTAGCTGCT
CGTGTCTCACTGTTAGAAACCAGGAAGATCAGAGGCCACAATAGCTTCCCACGAACCTCAGAGCAGATCTTCCAA
CCTGGGAAGAAAGCCCTGCTCCTACTCTGGAAGAAGTCAACGCCTGGGCTCAGTCATTTGACAAATTAATGGTCA
CTCCAGCAGGAAGGAATGCATTCCGTGAATTCTCCGAACAGAATTCAGTGAGGAAAATATGCTCTTCTGGATGG
CCTGTGAGGAACCTGAAAAAGGAAGCTAATAAAAAACATTATTGAAGAGAAAGCAAGGATAATCTATGAAGACTACA
TTTCTATACTTTCTCCTAAGGAGGTGAGCTTAGACTCCCGGGTGAGAGAAGTGATCAACAGAAACATGGTGGAGC
CATCCCAACACATATTGATGATGCTCAACTTCAGATTTACACCCTGATGCACAGAGACTCATATCCTCGATTCA
TGAACCTCTGCTGTCTATAAGGACTTGCTTCAGTCCTTATCGGAGAAATCTATTGAAGCATAGGATTTTTCAAATA
TATTTATTATTAATAAAATAATAAAAGAATTTCATGGGCTACAACCTAGCACAGGGAATTTAGAGGTTGTAGCATCT
TCTGCTGGAGTAATACTCAGGCTATTCTAATAACAGATGATTCTTCAACAGACTGCTATATATTACCATGTAA
ACTGCAGCCACCTTTAGTGATACTTTTAAAAAAAAAAAAATAAAGGGATATGGCTGTTGTAGAAAGATAGCGTATTT
GCATTTACAATAACAGTAGCATGTTGTCAGTGGCCAAGGCTACACAGAAGGCTCCCTGCTGCCCCGGAGCAGGTAC
ATCCACAGAGCAAAGGGAACCACTTTTATTTTGCATGAGTTTGGTAACTGATTACTCTCCCCTCAAAGAAAAAGAC
ATTGAGGTGTTTCTCAACGACATCTTCTGTCCAGCAAGCTCGGTTTGAATACGTCACCTACCAGTGCCATTGCAG
GACCCAAATTCACAGTTCATAAAAGATGTGACCACTACATGTAAAAATAGCATTCTACTTGATCTTACAGTATGT
ATGTATGTATGTATGGAGACATATGTGTGCGTGTGGATGTCTACATGGTTAATGGAAAGCACTGTGCTCTGAAGT
GGATCAGTCTCAAGTGTCTGGTAACAGCAGCAATGCTTAGAAAATTCTTTTGTGAAAAGAGTTACTGTTATTAT
CAGAATTTGCCAACCTAAAGAATGAATTTTAAATTCTAATCTGGTCATGTTTACAACAAAACCTGTCAAATAAG
CATATTTCCATTTTATTACTGAAAGAAATATGGGCATTTTCATTCTTTAAAGAAATAAAGCACAGAATTTTAT
CTCAAAAAAAAAAAAAAAAAA

974/2777
FIGURE 870

MRTADGGEPAGASSPAGRVDGGLQMGSERMEMRKRQMPAAQDTPGAAPGQPGAGSRGSNACCFWCCCCSCSCLT
VRNQEDQRPTIASHELADLPTWEESPAPTL EEVNAWAQSFDKLMVTPAGRNAFREFLRTEFSEENMLFWMAC EE
LKKEANKNIIEEKARI IYEDYISILSPKEVSLDSRVREVINRNMVEPSQHIFDDAQLQIYTLMHRDSYPRFMNSA
VYKDLLQSLSEKSIEA

975/2777
FIGURE 871A

AGACCCGCCGGGCTCCCGCCGCGCGCTGTCCCTGGAGCTCGGGGACGCGGCCCGGAGCCGGGAAGATGCGCAA
GCGGCTCTGCGCGGGGAGCGCACTGTGTGTTGCGGGCCCCGGGGCCCCGCGCCGCTGCTGCTGGTTCGGGCTGGC
GCTGCTGGGCGCGGCGCGGGGAGGAGGCGGGCGGGCTTCAGCCTGCACCCGCCCTACTTCAACCTGGC
CGAGGGCGCCCGCATCGCCGCTCCGCGACCTGCGGAGAGGAGGCCCGCGCGCGGCTCCCCGCGCCCCACCGA
GGACCTTTACTGCAAGCTGGTAGGGGGCCCCGTGGCCGCGGGCGACCCCAACCAGACCATCCGGGGCCAGTACTG
TGACATCTGCACGGCTGCCAACAGCAACAAGGCACACCCCGCGAGCAATGCCATCGATGGCACGGAGCGCTGGTG
GCAGAGTCCACCGCTGTCCCGCGGCTGGAGTACAACGAGGTCAACGTCACCCTGGACCTGGGCCAGGTCTTCCA
CGTGGCCTACGTCTCATCAAGTTTGCCAACCTACCCCGGGCCGGACCTCTGGGTGCTGGAGCGGTCCATGGACTT
CGGCCGCACCTACCAGCCCTGGCAGTTCTTTGCTCCTCCAAGAGGGACTGTCTGGAGCGGTTTCGGGCCACAGAC
GCTGGAGCGCATCACACGGGACGACGCGGCCATCTGCACCACCGAGTACTCAGCATCGTGCCCTGGAGAACGG
AGAGATCGTGGTGTCCCTGGTGAACGGACGTCCGGGCGCCATGAATTTCTCCTACTCGCCGCTGCTACGTGAGTT
CACCAAGGCCACCAACGTCCGCTTCCTGCGTACCAACACGCTGCTGGGCCATCTCATGGGGAAGGCGCT
GCGGGACCCACGGTCACCCGCGGTATTATTACAGCATCAAGGATATCAGCATCGGAGGCCGCTGTGTCTGCCA
CGGCCACGCGGATGCCTGCGATGCCAAAGACCCACGGACCCGTTTCAGGCTGCAGTGCACCTGCCAGCACAACAC
CTGCGGGGGCACCTGCGACCGCTGCTGCCCCGGCTTCAATCAGCAGCCGTGGAAGCCTGCGACTGCCAACAGTGC
CAACGAGTGCCAGTCTGTAACTGCTACGGCCATGCCACCGACTGTTACTACGACCCCTGAGGTGGACCGGCGCCG
CGCCAGCCAGAGCCTGGATGGCACCTATCAGGGTGGGGGTGTCTGTATCGACTGCCAGCACCACACCACCGGCGT
CAACTGTGAGCGCTGCCTGCCCCGGCTTCTACCGCTCTCCCAACCACCCTCTCGACTCGCCCCACGTCTGCCGCCG
CTGCAACTGCGAGTCCGACTTCACGGATGGCACCTGCGAGGACCTGACGGGTGATGCTACTGCCGGCCCCAACTT
CTCTGGGGAGCGGTGTGACGTGTGTGCCGAGGGCTTCACGGGCTTCCCAAGCTGCTACCCGACGCCCTCGTCTC
CAATGACACCAGGGAGCAGGTGCTGCCAGCCGGCCAGATTGTGAATTGTGACTGCAGCGCGGCAGGGACCCAGGG
CAACGCCTGCCGGAAGGACCCAAAGGGTGGGACGCTGTCTGTGCAAACCCAACTTCCAAGGCACCCATTGTGAGCT
CTGCGCGCCAGGGTCTACGGCCCCGGCTGCCAGCCCTGCCAGTGTTCAGCCCTGGAGTGGCCGATGACCGCTG
TGACCCTGACACAGGCCAGTGCAGGTGCCGAGTGGGCTTCGAGGGGGCCACATGTGATCGCTGTGCCCCCGGCTA
CTTTCACTTCCCTCTCTGCCAGTTGTGTGGCTGCAGCCCTGCAGGAACCTTGCCCGAGGGCTGCGATGAGGCCGG
CCGCTGCCTATGCCAGCCTGAGTTTGTGTGGACCTCATTGTGACCGGTGCCGCCCTGGCTACCATGGTTTCCCCAA
CTGCCAAGCATGCACCTGCGACCCCTCGGGGAGCCCTGGACCAGCTCTGTGGGGCGGGAGGTTTGTGCCGCTGCCG
CCCCGGCTACACAGGCACTGCCTGCCAGGAATGCAGCCCCGGCTTTCACGGCTTCCCCAGCTGTGTCCCTGCCA
CTGCTCTGCTGAAGGCTCCCTGCACGCAGCCTGTGACCCCCGAGTGGGCAGTGCAGCTGCCGGCCCCGTGTGAC
GGGGCTGCGGTGTGACACATGTGTGCCCGGTGCCACAACTTCCCTACTGCGAAGCTGGCTCTTGCCACCCCTGC
CGGTCTGGCCCCAGTGGATCCTGCCCTTCTGAGGCACAGGTTCCCTGTATGTGCCGGGCTCACGTGGAGGGGCC
GAGCTGTGACCGCTGCAAACCTGGGTTCTGGGGACTGAGCCCCAGCAACCCCGAGGGCTGTACCCGCTGCAGCTG
CGACCTCAGGGGCACACTGGGTGGAGTTGCTGAGTGCCAGCCGGGCACCGGCCAGTGTCTGTGCAAGCCCCACGT
GTGCGGCCAGGCCTGCGCGTCTGCAAGGATGGCTTCTTTGGACTGGATCAGGCTGACTATTTTGGCTGCCGCAG
CTGCCGGTGTGACATTGGCGGTGCACTGGGCCAGAGCTGTGAACCGAGGACGGGCGTCTGCCGGTGCCGCCCAA
CACCCAGGGCCCCACCTGCAGCGAGCCTGCGAGGGACCACTACCTCCCGACCTGCACCACCTGCGCCTGGAGCT
GGAGGAGGCTGCCACACCTGAGGGTCACGCCGTGCGCTTTGGCTTCAACCCCTCGAGTTCGAGAACTTCAGCTG
GAGGGGTACGCGCAGATGGCACCTGTCCAGCCCAGGATCGTGGCCAGGCTGAACCTGACCTCCCTGACCTTTT
CTGGCTCGTCTTCCGATACGTCAACCGGGGGGCCATGAGTGTGAGCGGGCGGGTCTCTGTGCGAGAGGAGGGCAG
GTCCGGCCACCTGCGCCAACCTGCACAGCACAGAGTCAGCCCGTGGCCTTCCACCCAGCACGGAGCCTGCCTTCAT
CACCGTGCCCCAGAGGGGCTTCGGAGAGCCCTTTGTGCTGAACCTGGCACCTGGGCCCTGCGTGTGGAGGCCGA
AGGGGTGCTCCTGGACTACGTGGTTCTGTGCTGCCTAGCGCATACTACGAGGCGGCGCTCCTGCAGCTGCGGGTGAC
TGAGGCCTGCACATACCGTCCCTCTGCCAGCAGTCTGGCGACAACCTGCCTCCTCTACACACACCTCCCCCTGGA
TGGCTTCCCTCGGCCGCGGGCTGGAGGCCCTGTGTGCCAGGACAACAGCCTGCCCCGGCCCTGCCCCACGGA
GCAGCTCAGCCCGTGCACCCGCCACTGATCACCTGCACGGGCAGTGTGTGGACGTCCAGCTTCAAGTGGCAGT
GCCACAGCCAGGCCGCTATGCCCTAGTGGTGGAGTACGCCAATGAGGATGCCCGCCAGGAGGTGGGCGTGGCCGT
GCACACCCACAGCGGGCCCCCAGCAGGGGCTGCTCTCCCTGCACCCCTGCCTGTACAGCACCTGTGCCGGGG
CACTGCCCCGGGATACCCAGGACCACCTGGCTGTCTTCCACCTGGACTCGGAGGCCAGCGTGAGGCTCACAGCCGA

976/2777
FIGURE 871B

ACAGGCACGCTTCTTCTGACGGGGTCACTCTGGTGCCCATGAGGAGTTACAGCCCGGAGTTCTGTTGAGCCCCG
GGTCAGCTGCATCAGCAGCCACGGCGCCTTTGGCCCCAACAGTGCCGCCTGTCTGCCCTCGCGCTTCCCAAAGCC
GCCCCAGCCCATCATCTCAGGGACTGCCAGGTGATCCCGCTGCCGCCCGGCCTCCCGCTGACCCACGCGCAGGA
TCTCACTCCAGCCATGTCCCCAGCTGGACCCCGACCTCGGCCCCCCACCGCTGTGGACCCTGATGCAGAGCCCCAC
CCTGCTGCGTGAGCCCCAGGCCACCGTGGTCTTCACCACCCATGTGCCACGCTGGGCCGCTATGCCTTCCTGCT
GCACGGCTACCAGCCAGCCACCCACCTTCCCCGTGGAAGTCTCATCAACGCCGGCCGCGTGTGGCAGGGCCA
CGCCAACGCCAGCTTCTGTCCACATGGCTACGGCTGCCGCACCCTGGTGGTGTGTGAGGGCCAGGCCCTGCTGGA
CGTGACCCACAGCGAGCTCACTGTGACCGTGCGTGTGCCAAGGGCCGGTGGCTCTGGCTGGATTATGTACTCGT
GGTCCCTGAGAACGTCTACAGCTTTGGCTACCTCCGGGAGGAGCCCTGGATAAATCCTATGACTTCATCAGCCA
CTGCGCAGCCCAGGGCTACCACATCAGCCCCAGCAGCTCATCCCTGTTCTGCCGAAACGCTGCTGCTTCCCTCTC
CCTCTTCTATAACAACGGAGCCCGTCCATGTGGCTGCCACGAAGTAGGTGCTACAGGCCCCACGTGTGAGCCCTT
CGGGGGCCAGTGTCCCTGCCATGCCCATGTGCTGCGGTGACCTGCTGCCGAAACGCTGCTGCTTCCCTCTC
CCCCAACTGCAGGCCCTGTGACTGCGGTGCCCGCCTCTGTGACGAGCTCACGGGCCAGTGCATCTGCCCGCCACG
CACCATCCCGCCCGACTGCCTGCTGTGCCAGCCCCAGACCTTTGGCTGCCACCCCTGGTCCGGCTGTGAGGAGTG
TAACTGCTCAGGGCCCGGCATCCAGGAGCTCACAGACCCTACCTGTGACACAGACAGCGGCCAGTGCAAGTGCGAG
ACCCAACGTGACTGGGCGCCGCTGTGATACCTGCTCTCCGGGCTTCCATGGCTACCCCCGCTGCCGCCCTGTGA
CTGTACAGAGGCGGGCACTGCGCCTGGCGTGTGTGACCCCTCACAGGGCAGTGCTACTGTAAGGAGAACGTGCA
GGGCCCCAAATGTGACAGTGCAGCCTTGGGACCTTCTCACTGGATGCTGCCAACCCCAAAGGTTGCACCCGCTG
CTTCTGCTTTGGGGCCACGGAGCGCTGCCGGAGCTCGTCTACACCCGCCAGGAGTTCTGTTGATATGGAGGGATG
GGTGTGCTGAGCACTGACCGGCAGGTGGTGCCCCACGAGCGGCAGCCAGGGACGGAGATGCTCCGTGCAGACCT
GCGGCACGTGCCTGAGGCTGTGCCCGAGGCTTTCCCCGAGCTGTACTGGCAGGCCCCACCTCCTACCTGGGGGA
CCGGGTGTATCTACGGTGGGACCTCCGTTATGAAGTGCCTCAGAGACCCAGCGGGGAGATGTCTTTGTCCC
CATGGAGAGCAGGCCGGATGTGGTGTGTCAGGGCAACCAGATGAGCATCACATTCTGGAGCCGGCATAACCCAC
GCCTGGCCACGTTACCGTGGGCAGCTGCAGCTGGTGGAGGGGAACCTCCGGCATAACGGAGACGCGCAACACTGT
GTCCCGCAGGAGCTCATGATGGTGTGTCAGGCTGGCCAGCCTGGAGCAGCTGCAGATCCGTGCCCTCTTCTCACAGATCTC
CTCGGCTGTCTTCTGCGCAGGGTGGCACTGGAGGTGGCCAGCCAGCAGGCCAGGGGGCCCTGGCCAGCAATGT
GGAGCTGTGCCTGTGCCCCGCCAGCTACCGGGGGGACTCATGCCAGGAATGTGCCCCCGGCTTCTATCGGGACGT
CAAAGGTCTCTTCTGGGCCGATGTGTCCCTTGTGAGTGCCATGGACACTCAGACCGCTGCCTCCCTGGCTCTGG
CGTCTGTGTGGACTGCCAGCACAAACCCGAAGGGGCCACTGTGAGCGCTGCCAGGCTGGCTTCGTGAGCAGCAG
GGACGACCCAGCGCCCCCTGTGTGAGCTGCCCCCTGCCCCCTCTCAGTGCCCTTCCAACAACCTTCGCCGAGGGCTG
TGTCCTGCGAGGCGGGCCGACCCAGTGCCCTGTGAAAACCTGGTTATGCAGGTGCCTCCTGCGAGCGGTGTGCGCC
CGGATTCTTTGGGAACCCACTGGTGTGTCAGCTTCTGCCAGCCATGCGACTGCAGCGGCAACGGTGACCCCAA
CTTGCTCTTTCAGCGACTGCGACCCCTGACGGGCGCCTGCCGTGGCTGCCTGCGCCACACCACTGGGCCCGCTG
CGAGATCTGTGCCCCCGCTTCTACGGCAACGCCCTGTGCCCCGCAACTGCACCCGGTGCGACTGTACCCCATG
TGGGACAGAGGCTGCGACCCCCACAGCGGGCACTGCCTGTGCAAGGCGGGCGTGAAGTGGCGCGCTGTGACCG
CTGCCAGGAGGGACATTTTGGTTTCGATGGCTGCGGGGGCTGCCGCCCGTGTGCTTGTGGACCGGCCCGGAGGG
CTCCGAGTGCCACCCCCAGAGCGGACAGTGCCACTGCCGACCAGGGACCATGGGACCCAGTGCCGCGAGTGTGC
CCCTGGCTACTGGGGGCTCCCTGAGCAGGGCTGCAGGCGCTGCCAGTGCCCTGGGGGCGCTGTGACCTCACAC
GGGCCGCTGCAACTGCCCCCGGGGCTCAGCGGGGAGCGCTGCGACACCTGCAGCCAGCAGCATCAGGTGCCTGT
TCCAGGCGGGCCTGTGGGCCACAGCATCCACTGTGAAGTGTGTGACCACTGTGTGGTCTGCTCCTGGATGACCT
GGAACGGGCGGGCGCCCTCCTCCCCGCCATTACGAGCAACTGCGTGGCATCAATGCCAGTCCATGGCCTGGGC
CCGTCTGCACAGGCTGAACGCCTCCATCGCTGACCTGCAGAGCCAGCTCCGGAGCCCCCTGGGCCCGCCATGA
GACGGCACAGCAGCTGGAGGTGTGAGCAGCAGAGCACAAGCCTCGGGCAGGACGCACGGCGGCTAGGCGGCCA
GGCCGTGGGGACCCGAGACCAGGCGAGCCAATTGCTGGCCGGCACCGAGGCCACACTGGGGCATGCGAAGACGCT
GTTGGCGGCCATCCGGGCTGTGGACCGCACCTGAGCGAGCTCATGTCCAGACGGGCCACCTGGGGCTGGCCAA
TGCTTCGGCTCCATCAGGTGAGCAGCTGCTCCGGACACTGGCCGAGGTGGAGCGGCTGCTCTGGGAGATGCGGGC
CCGGGACCTGGGGGCCCCGAGGCAGCAGCTGAGGCTGAGTTGGCTGCAGCACAGAGATTGCTGGCCCGGGTGCA
GGAGCAGCTGAGCAGCTCTGGGAGGAGAACCAGGCACTGGCCACACAAACCCGCGACCGGCTGGCCAGCACGA

977/2777
FIGURE 871C

GGCCGGCCTCATGGACCTGCGAGAGGCTTTGAACCGGGCAGTGGACGCCACACGGGAGGCCAGGAGCTCAACAG
CCGCAACCAGGAGCGCCTGGAGGAAGCCCTGCAAAGGAAGCAGGAGCTGTCCCGGACAATGCCACCCTGCAGGC
CACTCTGCATGCGGCTAGGGACACCCTGGCCAGCGTCTTCAGATTGCTGCACAGCCTGGACCAGGCTAAGGAGGA
GCTGGAGCGCCTCGCCGCCAGCCTGGATGGGGCTCGGACCCCACTGCTGCAGAGGATGCAGACCTTCTCCCCGGC
GGGCAGCAAGCTGCGTCTAGTGGAGGCCGCCGAGGCCACGCACAGCAGCTGGGCCAGCTGGCACTCAATCTGTC
CAGCATCATCTGGACGTCAACCAGGACCGCCTCACCAGAGGGCCATCGAGGCCTCCAACGCCTACAGCCGCAT
CCTGCAGGCCGTGCAGGCTGCCGAGGATGCTGCTGGCCAGGCCCTGCAGCAGGCGGACCACACGTGGGCGACGGT
GGTGGCGGAGGGCCTGGTGGACCGAGCCCAGCAGCTCCTGGCCAACAGCACTGCACTAGAAGAGGCCATGCTCCA
GGAACAGCAGAGGCTGGGCCTTGTGTGGGCTGCCCTCCAGGGTGCCAGGACCCAGCTCCGAGATGTCCGGGCCAA
GAAGGACCAGCTGGAGGCGCACATCCAGGCGGCGCAGGCCATGCTTGCCATGGACACAGACGAGACAAGCAAGAA
GATCGCACATGCCAAGGCTGTGGCTGCTGAAGCCAGGACACCGCCACCCTGTGTGAGTCCCAGCTGCAGGCCAT
GCAGGAGAATGTGGAGCGGTGGCAGGGCCAGTACGAGGGCCTGCGGGGCCAGGACCTGGGCCAGGCAGTGCTTGA
CGCAGGCCACTCAGTGTCCACCCTGGAGAAGACGCTGCCCCAGCTGCTGGCCAAGCTGAGCATCCTGGAGAACC
TGGGGTGACAACGCCAGCCTGGCCCTGTCCGCCAGCATTGGCCGCGTGCGAGAGCTCATTGCCAGGCCCGGGG
GGCTGCCAGTAAGGTCAAGGTGCCCCATGAAGTTCAACGGGCGCTCAGGGGTGCAGCTGCGCACCCACGGGATCT
TGCCGACCTTGCTGCCTACACTGCCCTCAAGTTCTACCTGCAGGGCCAGAGCCTGAGCCTGGGCAGGGTACCGA
GGATCGCTTTGTGATGTACATGGGCAGCCGCCAGGCCACTGGGGACTACATGGGTGTGTCTCTGCGTGACAAGAA
GGTGCAGTGGGTGTATCAGCTGGGTGAGGCGGGCCCTGCAGTCCTAAGCATCGATGAGGACATTGGGGAGCAGTT
CGCAGCTGTGAGCCTGGACAGGACTCTCCAGTTTGGCCACATGTCCGTACAGTGGAGAGACAGATGATCCAGGA
AACCAAGGGTGACACGGTGGCCCCCTGGGGCAGAGGGGCTGCTCAACCTGCGGCCAGACGACTTCGTCTTCTACGT
CGGGGGGTACCCAGTACCTTCACGCCCCCTCCCCGTGCTTCGCTTCCCCGGCTACCGGGGCTGCATCGAGATGGA
CACGCTGAATGAGGAGGTGGTCAGCCTCTACAACCTTCGAGAGGACCTTCCAGCTGGACACGGCTGTGGACAGGCC
TTGTGCCCGCTCCAAGTCGACCGGGGACCCGTGGCTCACGGACGGCTCCTACCTGGACGGCACCGGCTTCGCCCG
CATCAGCTTCGACAGTCAGATCAGCACCACCAAGCGCTTCGAGCAGGAGCTGCGGCTCGTGTCTACAGCGGGGT
GCTCTTCTTCTGAAGCAGCAGAGCCAGTTCCTGTGCTTGGCCGTGCAAGAAGGCAGCCTCGTGTGTGTATGA
CTTTGGGGCTGGCCTGAAAAAGGCCGTCCCACTGCAGCCCCCACCGCCCTGACCTCGGCCAGCAAGGCGATCCA
GGTGTTCCTGCTGGGGGGCAGCCGCAAGCGTGTGCTGGTGCCTGTGGAGCGGGCCACGGTGTACAGCGTGGAGCA
GGACAATGATCTGGAGCTGGCCGACGCCTACTACCTGGGGGGCGTGCCGCCGACCAGCTGCCCCCGAGCCTGCG
ACGGCTCTTCCCCACCGGAGGCTCAGTCCGTGGCTGCGTCAAAGGCATCAAGGCCCTGGGCAAGTATGTGGACCT
CAAGCGGCTGAACACGACAGGCGTGAGCGCCGGCTGCACCGCCGACCTGCTGGTGGGGCGCGCCATGACTTTCCA
TGGCCACGGCTTCCTTCGCCTGGCGCTCTCGAACGTGGCACCGCTCACTGGCAACGTCTACTCCGGCTTCGGCTT
CCACAGCGCCCAGGACAGTGCCCTGCTCTACTACCGGGCGTCCCCGGATGGGCTATGCCAGGTGTCCCTGCAGCA
GGGCCGTGTGAGCCTACAGCTCCTGAGGACTGAAGTGAAACTCAAGCGGGCTTCGCCGATGGTGGCCCCCATT
CGTCGCCTTCTACAGCAATGCCACGGGAGTCTGGCTGTATGTGATGACAGCTCCAGCAGATGAAGCCCCACCG
GGGACCACCCCCGAGCTCCAGCCGAGCCTGAGGGGCCCCGAGGCTCCTCCTGGGAGGCCTGCCTGAGTCTGG
CACCATTTACAACCTTCAGTGGCTGCATCAGCAACGTCTTCGTGCAGCGGCTCCTGGGCCCACAGCGCGTATTGA
TCTGCAGCAGAACCTGGGCAGCGTCAATGTGAGCACGGGCTGTGCACCCGCCCTGCAAGCCCAGACCCGGGCCT
GGGGCCTAGAGGACTGCAGGCCACCGCCCCGAAGGCCTCCCGCCGACCGCTCAGCCCCGCCCCGGCATCCTGCCTG
CATGCTGCCCCACACCTCAGGACCACCCGAGACTCCTACCAGTTTGGGGGTTCCCTGTCCAGTCACTGGAGTT
TGTGGGCATCCTGGCCCCGACATAGGAACTGGCCAGTCTCTCCATGCACGTCTCCTCCCGCAAGCTCCCGAGGCCT
CCTCCTCTTCACTGCCCGTCTGAGGCCCCGGCAGCCCCCTCCCTGGCGCTCTTCTGAGCAATGGCCACTTCGTTC
ACAGATGGAAGGCCTCGGGACTCGGCTCCGCGCCAGAGCCGCCAGCGCTCCCGGCCTGGCCGCTGGCACAAGGT
CTCCGTGCGCTGGGAGAAGAACC GGATCCTGCTGGTGACGGACGGGGCCCCGGGCCTGGAGCCAGGAGGGGCCGA
CCGGCAGCACCAGGGGGCAGAGCACCCCCAGCCCCACACCTCTTTGTGGGCGGCCTCCCGGCCAGCAGCCACAG
CTCCAAACTTCCGGTGACCGTTCGGGTTACGCGGCTGTGTGAAGAGACTGAGGCTGCACGGGAGGCCCCCTGGGGG
CCCCACACGGATGGCAGGGGTACACCCCTGCATCTTGGGCCCCCTGGAGGCGGGCCTGTTCTTCCAGGCAGCGG
GGGAGTTATCACTTTAGACCTCCAGGAGCTACACTGCCTGATGTGGGCTGGAAGTGGAGGTGCGGCCCTGGC
AGTCACCGGACTGATCTTCCACTTGGGCCAGGCCCGACGCCCCCTACTTGAGTTGCAGGTGACCGAGAAGCA

978/2777
FIGURE 871D

AGTCCTGCTGCGGGCGGATGACGGAGCAGGGGAGTTCTCCACGTCAGTGACCCGCCCCTCAGTGCTGTGTGATGG
CCAGTGGCACCGGCTAGCGGTGATGAAAAGCGGGAATGTGCTCCGGCTGGAGGTGGACGCGCAGAGCAACCACAC
CGTGGGCCCCCTTGCTGGCGGCTGCAGCTGGTGCCCCAGCCCCTCTGTACCTCGGGGGCCTGCCTGAGCCCATGGC
CGTGCAGCCCTGGCCCCCGCCTACTGCGGCTGCATGAGGAGGCTGGCGGTGAACCGGTCCCCGTGCGCATGAC
TCGCTCTGTGGAGGTCCACGGGGCAGTGGGGGCCAGTGGCTGCCCAGCCGCCTAGGACACAGCCAACCCCGGCC
CTGGTCAGGCCCTGCAGCTGCCTCACACCGCCCCTTGCTGCTCGCCTCATAGGTGTCTATTTGGACTCTAAGCTC
TACGGGTGACAGATCTTGTTTCTGAAGATGGTTTAAGTTATAGCTTCTTAAACGAAAGAATAAAATACTGCAAAA
TGTTTTTATATTTGGCCCTTCCACCCATTTTAAATTGTGAGAGATTGTACCAATCATCACTGGTTCCTCCTTA
AAAATTAAAAAGTAACTTCTGTGTAA

979/2777
FIGURE 872A

MAKRLCAGSALCVRGPRGPAPLLLVGLALLGAARAREEAGGGFSLHPPYFNLAEGARIAASATCGEEAPARGSPR
PTEDLYCKLVGGPVAGGDPNQITIRGQYCDICTAANSNKAHPASNAIDGTERWWQSPPLSRGLEYNEVNTLDLGQ
VFHVAYVLIKFANSRPDLWVLERSMDFGRITYQPWQFFASSKRDCLERFGPQTLERITRDAAICTTEYSRIVPL
ENGEIVVSLVNGRPGAMNFSYSPLLREFTKATNVRLRFLRTNTLLGHLMGKALRDPTVTRYYYSIKDISIGGRC
VCHGHADACDAKDPDTPFRLQCTCQHNTCGGTCDRCCPGFNQOPWKPATANSANECQSCNCYGHATDCYYDPEVD
RRRASQSLDGTYYGGGVCIDCQHHTTGVCNCRCLPGFYRSPNHPLDSPHVCRRNCNCSDFDTGTCEDLTGRICYCR
PNFSGERCDCVCAEGFTGFPSCYPTPSSSNDTREQVLPAGQIVNCDCSAAGTQGNACRKDPRVGRCLCKPNFQGT
CELCAFGFYGPGCQPCQCSSPGVADDRCDPTGQCRCRVGFEGATCDRCAPGYFHFPLCQLCGCSPAGTLPEGCD
EAGRCLCQPEFAGPHCDRCRPGYHGFPCQACTCDPRGALDQLCGAGGLCRCPGYTGTACQECSPGFHGFPCV
PCHCSAEGSLHAACDPRSGQCSRCRPTGLRCDTCVPAYNFFPYCEAGSCHPAGLAPVDPALPEAQVPCMCRAHV
EGPSCDRCKPGFWGLSPSNPEGCTRCSCDLRGTLLGGVAECQPGTGQCFCKPHVCGQACASCKDGGFFGLDQADYFG
CRSCRCDIGGALGQSCEPRTGVCRCRPNTOGPTCSEPARDHYLPDLHHLRLELEEAATPEGHAVRFGFNPLEFEN
FSWRGYAQMAPVQPRIVARLNLTPDLFWLVFRYVNRGAMSVSGRVSVREEGRSATCANCTAQSQPVAFPSTEP
AFITVPQRGFGPEFVLNPGTWALRVEAEGVLLDYVLLPSAYYEAALLQLRVTEACTYRPSAQSGDNCLLYTHL
PLDGFPSAAGLEALCRQDNSLPRPCPTQLSPSHPLITCTGSDVDVQLQVAVPQPGRYALVVEYANEDARQEVG
VAVHTPQRAPQQGLLSLHPCLYSTLCRGRTARDTQDHLAVFHLDSASVRLTAEQARFFLHGVTLPVIEEFSPFV
EPRVSCISSHGAFGPNSAACLP SRFPKPPQPIILRDCQVILPPLGLPLTHAQDLTPAMSPAGPRPRPTAVDPDA
EPTLLREPQATVVFTHVPTLGRYAFLLHGYQPAHPTTFVEVLINAGRVWQGHANASFCPHGYGCRTLVCCEGQA
LLDVTHSELTVTVRVKGRWLWLDYVLVVPENVYSFGYLREEPLDKSYDFISHCAAQGYHISPPSSSLFCRNAAA
SLSLFYNNGARPCGCHEVGATGPTCEPFGGQCPCHAHVIGRDCSRCATGYWGFPCNRPDCGARLCDELGTQCIC
PPRTIPPDCLLCQPQTFGCHPLVGCCECNCSSGPGIQLTDPDTCDDSGQCKCRPNVTGRRCDTCSPGFHHGYPRCR
PCDCHEAGTAPGVCDPLTGQCYCKENVQGPCKDQCSLGTFLDAANPKGCTRCFCGATERCRSSSYTRQEFVDM
EGWVLLSTDRQVVPHERQPGTEMLRADLRHVPEAVPEAFPELYWQAPPSYLGDRVSSYGGTLRYELHSETQRGDV
FVPMESRPDVVLQGNQMSITFLEPAYPTPGHVHRGQLQLVEGNFRHTETRTVSRLEELMMVLASLEQLQIRALFS
QISSAVFLRRVALEVASPAGQALASNVELCLCPASYRGDSCQECAPGFYRDVKGLFLGRCVPCQCHGHSRCLP
GSGVCVDCQHNTGEGAHCECQAGFVSSRDDPSAPCVSCPCPLSVP SNNFAEGCVLRGGRTQCLCKPGYAGASCE
CAPGFFGNPLVLGSSCQPCDCSNGDPNLLFSDCDPLTGACRGCLRHTTGPRCEICAPGFYGNALLPGNCTRCDC
TPCGTEACDPHSGHCLCKAGVTGRRCDRCQEGHFGFDGCGGCRPCACGPAAEGSECHPQSGQCHCRPGTMGPQCR
ECAPGYWGLPEQGCRRCQCPGGRCDPHTGRCNCPGLSGERCDCSQQHQVPVPGGPVGHSHCEVCDHCVVLLL
DDLERAGALLPAIHEQLRGINASSMAWARLHRLNASIADLQSQLRSPPLGPRHETAQQLEVLQOQSTSLGQDARRL
GGQAVGTRDQASQLLAGTEATLGHAKTLLAAIRAVDRTLSELSMQTGHLGLANASAPSGEQLLRTLAEVERLLWE
MRARDLGAPQAAAEAEALAAQRLARVQEQLSLWEEANQALATQTRDLAQHEAGLMDLREALNRAVDATREAQE
LNSRNQERLEALQKQELSRDNATLQATLHAARDTLASVFRLLHSLDQAKEELERLAASLDGARTPLLQRMQTF
SPAGSKLRLVEAAEAHAQQLGQLALNLSSIIILDVNQDRLTQRAIEASNAYSRILOAVQAAEDAAGQALQQADHTW
ATVVRQGLVDRAQQLLANSTALEEAMLQEQQLGLVWAAALQGARTQLRDVRAKKDQLEAHIQAAQAMLAMDTDET
SKKIAHAKAVAAEAQDTATRVQSQLQAMQENVERWQGGYEGLRGQDLGQAVLDAGHSVSTLEKTLPLQLLAKLSIL
ENRGVHNASLALSASIGRVRELIAQARGAASKVKVPMKFNGRSGVQLRTPRDLADLAAYTALKFYLQGPPEPEPQ
GTEDRFVMMGSRQATGDYMGVSLRDKKVHVYQLGEAGPAVLSIDEDIGEQAASVSLDRTLQFGHMSVTVERQM
IQETKGDTPVAPGAEGLLNLRPDDFVFYVGGYPSTFTPPPLLRFPGYRGCIEMDTLNEEVVSLYNFERTFQLDTAV
DRPCARSKSTGDPWLTGDSYLDGTGFARISFDSQISTTKRFEQELRLVSYSGLVFLFLKQSQFLCLAVQEGSLVL
LYDFGAGLKKAVPLQPPPLTSASKAIQVFLGGSRRKRVLRVERATVYSVEQDNDLELADAYYLGVPDPQLPP
SLRRLFPPTGGSVRGCVKGKIKALGKYVDLKRNLTTGVSAGCTADLLVGRAMTFHGHGFLRLALSNAVPLTGNVYSG
FGFHSAQDSALLYRASPDGLCQVSLQQGRVSLQLLRTEVKTQAGFADGAPHYVAFYSNATGVWLYVDDQLQOMK
PHRGPPPELQPOPEGPPRLLGLLPESGTIYNFSGCISNVFVQRLGLPQRVFDLQQLGVSNNVSTGCAPALQAQT
PGLGPRGLQATARKASRRSRQPARHPACMLPPLHRTTRDSYQFGGSLSSHLEFVGILARHRNWP SLSMHVLPSS
RGLLLFTARLRPGSPSLALFLSNGHFVAQMEGLTRLRAQSRQSRPGRWHKVSVRWEKNRILLVTDGARAWSQE
GPHRQHQAHEHPQPHTLFVGGLPASSHSSKLPVTVGFSGCVKRLRLHGRPLGAPTRMAGVTPCILGPLEAGLFFP
GSGGVITLDDLPGATLPDVGLELEVRPLAVTGLIFHLGQARTPPYLQLQVTEKQVLLRADDGAGEFSTS SVTRPSVL

980/2777
FIGURE 872B

CDGQWHRLAVMKSGNVLRLEVDAQSNHTVGPELLAAAAGAPAPLYLGGLPEPMAVQPPAYCGCMRRLAVNRSPV
AMTRSVEVHGAVGASGCPAA

981/2777
FIGURE 873

GAATTCGGGAAAAGACCGAAGAAGGAGGCTGGAGAGACCAGGATCCTTCCAGCTGAACAAAGTCAGCCACAAAGC
AGACTAGCCAGCCGGCTACAATTGGAGTCAGAGTCCCAAAGACATGGGCTTGTAGAGTGCTGTGCAAGATGTCT
GGTAGGGGCCCCCTTTGCTTCCCTGGTGGCCACTGGATTGTGTTTCTTTGGGGTGGCACTGTTCTGTGGCTGTGG
ACATGAAGCCCTCACTGGCACAGAAAAGCTAATTGAGACCTATTTCTCCAAAACTACCAAGACTATGAGTATCT
CATCAATGTGATCCATGCCTTCCAGTATGTATCTATGGAAGTGCCTCTTTCTTCTCCTTTATGGGGCCCTCCT
GCTGGCTGAGGGCTTCTACACCACCGGCGCAGTCAGGCAGATCTTTGGCGACTACAAGACCACCATCTGCGGCAA
GGGCTGAGCGCAACGGTAACAGGGGGCCAGAAGGGGAGGGGTTCAGAGGCCAACATCAAGCTCATTCTTTGGA
GCGGGTGTGTAATTGTTTGGGAAAATGGCTAGGACATCCCGACAAGTTTGTGGGCATCACCTATGCCCTGACCGT
TGTTGGCTCCTGGTGTTCCTGCTCTGCTGTGCCTGTGTACATTTACTTCAACACCTGGACCACCTGCCAGTC
TATTGCCCTTCCCCAGCAAGACCTCTGCCAGTATAGGCAGTCTCTGTGCTGACGCCAGAATGTATGGTGTCTCCC
ATGGAATGCTTTCCCTGGCAAGGTTTGTGGCTCCAACCTTCTGTCCATCTGCAAAACAGCTGAGTTCCAAATGAC
CTTCCACCTGTTTATTGCTGCATTTGTGGGGCTGCAGCTACACTGGTTTCCCTGCTCACCTTCATGATTGCTGC
CACTTACAACCTTTGCCGTCCTTAAACTCATGGGCCGAGGCACCAAGTCTGATCCCCCGTAGAAATCCCCCTTTC
TCTAATAGCGAGGCTCCTCTAACCACACAGCCTACAATGCTGCGTCTCCCATCTTAACTCTTTGCCCTTTGCCACC
AACTGGCCCTCTTCTTACTTGATGAGTGTAACAAGAAAGGAGAGTCTTGCAAGTATTAAGGTCTCTCTTTGGACT
CTCCCCTCTTATGTACCTCTTTTAGTCATTTTGCTTCATAGCTGGTTCCCTGCTAGAAATGGGAAATGCCTAAGAA
GATGACTTCCCAACTCGAAGTCACAAAGGAATGGAGGCTCTAATTGAATTTTCAAGCATCTCCTGAGGATCAGAA
AGTAATTTCTTCTCAAAGGGTACTTCCACTGATGGAAACAAAGTGGAAAGGAAGGTCAGGTACAGAGAAGGA
ATGCTTTTGGTCTCTTGCCATCTATAGGGGGCCAAATATATTCTCTTTGGTGTACAAAATGGAATTCATTCTGGT
CTCTCTATTACCACTGAAGATAGAAGAAAAAAGAAATGTCAGAAAAACAATAAGAGCGTTTGGCCAAATCTGCCTA
TTGCAGCTGGGAGAAGGGGGTCAAAGCAAGGATCTTTCACCCACAGAAAGAGAGCACTGACCCCGATGGCGATGG
ACTACTGAAGCCCTAACTCAGCCAACCTTACTTACAGCATAAGGGAGCGTAGAATCTGTGTAGACGAAGGGGGCA
TCTGGCCTTACACCTCGTTAGGGAAGAGAAAACAGGGTGTGTGTCAGCATCTTCTCACTCCCTTCTCCTTGATAACA
GCTACCATGACAACCCTGTGGTTTCCAAGGAGCTGAGAATAGAAGGAAACTAGCTTACATGAGAACAGACTGGCC
TGAGGAGCAGCAGTTCTGGTGGCTAATGGTGTAACTGAGATGGCCCTCTGGTAGACACAGGATAGATAACTCT
TTGGATAGCATGTCTTTTTTCTGTAAATTAGTTGTGTACTCTGGCCTCTGTCATATCTTCACAATGGTGCTCAT
TTCATGGGGTATTATCCATTCACTCATCGTAGGTGATTGAAAGGTCTTGATTGTTTTAGAAATGATGCACATTC
ATGTATTCCAGTTTGTATTACTTATTTGGGGTTCATCAGAAATGTCTGGAGAATAATTCTTTGATTATGACT
GTTTTTTAACTAGGAAAATTGGACATTAAGCATCACAAATGATATTAAAATTGGCTAGTTGAATCTATTGGGA
TTTTCTACAAGTATTCTGCCTTTGCAGAAACAGATTGGTGAATTTGAATCTCAATTTGAGTAATCTGATCGTTC
TTTCTAGCTAATGGAAAATGATTTTACTTAGCAATGTTATCTTGGTGTGTTAAGAGTTAGGTTTAACATAAAGGT
TATTTTCTCCTGATATAGATCACATAACAGAATGCACCAGTCATCAGCTATTGAGTTGGTAAGCTTCCAGGAAAA
AGGACAGGCAGAAAGAGTTTGAGACCTGAATAGCTCCAGATTTCAGTCTTTTCTGTTTTGTTAACTTTGGGT
TAAAAAAGAGTCTGATTGGTTTTAATTGAAGGAAAGATTTGTACTACAGTTCTTTTGTGTAAAGAGTTG
TGTTGTTCTTTTCCCCCAAAGTGGTTTCAGCAATATTTAAGGAGATGTAAGAGCTTTACAAAAGACACTTGATA
CTTGTTTTCAAACCAGTATACAAGATAAGCTTCCAGGCTGCATAGAAGGAGGAGGGGAAAATGTTTTGTAAGAA
ACCAATCAAGATAAAGGACAGTGAAGTAATCCGTACCTTGTGTTTTGTTTTGATTTAATAACATAACAAATAACC
AA

982/2777
FIGURE 874

MGLLECCARCLVGAPFASLVATGLCFFGVALFCGCGHEALTGTEKLIETYFSKNYQDYEYLINVIHAFQYVIYGT
ASFFFLYGALLLAEGFYTTGAVRQIFGDYKTTICGKGLSATVTGGQKGRGSRGQHQAHS LERVCTCLGKWLGHDP
KFVGITYALTVVWLLVFACSAVPVYIYFNTWTTTCQSIAPPSKTSASIGSLCADARMYGVL PWNAPGKVCGSNLL
SICKTAEFQMTFHLFIAAFVGAAATLVSLLTFMIAATYNFAVLKLMGRGTKE

983/2777
FIGURE 875

GACGGAAACCTTTTTAGGGAGTCCAAGGTACAGTCGCCGCGTGCGAGCTTGTTACTGGTTACTTGGCCTCATGGC
GGTCCGAGCTTCGTTTCGAGAACAACCTGTGAGATCGGCTGCTTTGCCAAGCTCACCAACACCTACTGTCTGGTAGC
GATCGGAGGCTCAGAGAACTTCTACAGTGTGTTTCGAGGGCGAGCTCTCCGATAACCATCCCCGTGGTGCACGCGTC
TATCGCCGGCTGCCGCATCATCGGGCGCATGTGTGTGGGGAACAGGCACGGTCTCCTGGTACCCAACAATACCAC
CGACCAGGAGCTGCAACACATTTCGCAACAGCCTCCCAGACACAGTGCAGATTAGGCGGGTGGAGGAGCGGCTCTC
AGCCTTGGGCAATGTCACCACCTGCAATGACTACGTGGCCTTGGTCCACCCAGACTTGGACAGGGAGACAGAAGA
AATTCTGGCAGATGTGCTCAAGGTGGAAGTCTTCAGACAGACAGTGGCCGACCAGGTGCTAGTAGGAAGCTACTG
TGTCTTCAGCAATCAGGGAGGGCTGGTGCATCCCAAGACTTCAATTGAAGACCAGGATGAGCTGTCCTCTCTTCT
TCAAGTCCCCCTTGTGGCGGGGACTGTGAACCGAGGCAGTGAGGTGATTGCTGCTGGGATGGTGGTGAATGACTG
GTGTGCCTTCTGTGGCCTGGACACAACCAGCACAGAGCTGTCAGTGGTGGAGAGTGTCTTCAAGCTGAATGAAGC
CCAGCCTAGCACCATTGCCACCAGCATGCGGGATTCCCTCATTGACAGCCTCACCTTGAGTCACCTTCCAAGTTGT
TCCATGGGCTCCTGGCTCTGGACTGTGGCCAACCTTCTCCACATTCCGCCCAATCTGTACCGGATGCTGGCAGGG
AGGTGGCAGAGAGCTCACTGGGACTGAGGGGCTGGGCACCCAACCCTTTTCCACCTGTGCTTATCGCCTGGATCT
ATCATTACTGCAAAAACCTGCTCTGTTGTGCTGGCTGGCAGGCCCTGTGGCTGCTGGCTGAGGGTTCTGCTGTCC
TGTGCCACCCCATTAAGTGCAGTTCCCTCCGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

984/2777
FIGURE 876

MAVRASFENNCEIGCFAKLTNTYCLVAIGGSENFYSVFEGELSDTIPVVHASIAGCRIIGRMCVGNRHGLLPNN
TTDQELQHIRNSLPDTVQIRRVEERLSALGNVTTCDYVALVHPDLDTRETEEILADVLKVEVFRQTVADQVLVGS
YCVFSNQGGLVHPKTSIEDQDELSSLLQVPLVAGTVNRGSEVIAAGMVNDWCAFCGLDTTSTELSVVESVFKLN
EAQPSTIATSMRDSLIDSLT

985/2777
FIGURE 877

GGCACGAGGGAGAGAGAACTAGTCTCGAGTTTTTTTTTTTTTTTTTGTGCAGGTAGGAAATGTCTTTATTATTGG
CCTTGAGTCATCATGTAGTGTCTGACATAGGTTACGTGTCCAGAGGATCTGCCTGGCACACGCTAGCTACCCCTG
CCCACTGGAGCAGCCCCTCTGGCCGACGCCAGGCCTTTGTCCATCATGCCAGGGAAGCCAACCCACCATCCCAC
AAGTTCATGCTAGGGGTGCTGAGGAACAAGGCTGTCCTAGGATTGGACCCTCCATCCTGGACAGGGGTCTGGGG
AGGATGAGGCTGAGGCCTGGATGATCAGTCTCTTTTTGGTTTCATGATCATTAAAAAACAGAAAAGACAAACAT
TTCACAGTCTTTAAAAAATAGAAGTCTGAGGAGAGAAGCCAGAGTCCTGGGCCCCGGGAGGCCCCCTCGAGGCCTC
AGCATTCCCTGTCCCTTGAGGTCTGTCTGACGGCCTGGCCACAGCACACGTGGCCCGTTATTGGAGCCAGGCCTA
CACCCAGCAACCATGTCCAAGGGACCTGCAGTTGGTATTGATCTTGGCACCACTACTCTTGTGTGGGTGTTTT
CCAGCACGAAAAGTCGAGATAATTGCCAATGATCAGGGAAACCGAACCCTCCAAGCTATGTCGCCTTTACGGA
CACTGAACGGTTGATCGGTGATGCCGCAAAGAATCAAGTTGCAATGAACCCACCAACACAGTTTTTGATGCCAA
ACGTCTGATTGGACGCAGATTTGATGATGCTGTTGTCCAGTCTGATATGAAACATTGGCCCTTTATGGTGGTGAA
TGATGCTGGCAGGCCCAAGGTCCAAGTAGAATACAAGGGAGAGACCAAAAGCTTCTATCCAGAGGAGGTGTCTTC
TATGGTTCTGACAAAGATGAAGGAAATTGCAGAAGCCTACCTTGGGAAGACTGTTACCAATGCTGTGGTCACAGT
GCCAGCTTACTTTAATGACTCTCAGCGTCAGGCTACCAAGATGCTGGAACCTATTGCTGGTCTCAATGTACTTAG
AATTATTAATGAGCCAACCTGCTGCTGCTATTGCTTACGGCTTAGACAAAAAGGTTGGAGCAGAAAAGAAACGTGCT
CATCTTTGACCTGGGAGGTGGCACTTTTGATGTGTCAATCCTCACTATTGAGGATGGAATCTTTGAGGTCAAGTC
TACAGCTGGAGACACCCACTTGGGTGGAGAAGATTTTGACAACCGAATGGTCAACCATTTTATTGCTGAGTTTTAA
GCGCAAGCATAAGAAGGACATCAGTGAGAACAAGAGAGCTGTAAGACGCCTCCGTAAGTGTGTAACGTGCTAA
GCGTACCCTCTCTTCCAGCACCCAGGCCAGTATTGAGATCGATTCTCTCTATGAAGGAATCGACTTCTATACCTC
CATTACCCGTGCCGATTTGAAGAACTGAATGCTGACCTGTTCCGTGGCACCCCTGGACCCAGTAGAGAAAGCCCT
TCGAGATGCCAACTAGACAAGTCACAGATTATGATATTGTCTGTTGGTGGTTCTACTCGTATCCCCAAGAT
TCAGAAGCTTCTCCAAGACTTCTTCAATGGAAGAAGTGAATAAGAGCATCAACCCTGATGAAGCTGTTGCTTA
TGGTGCAGCTGTCCAGGCAGCCATCTTGTCTGGAGACAAGTCTGAGAATGTTCAAGATTGCTGCTCTTGGATGT
CACTCCTCTTTCCCTTGGTATTGAACTGCTGGTGGAGTCATGACTGTCTCATCAAGCGTAATACCACCATTCC
TACCAAGCAGACACAGACCTTCACTACCTATTCTGACAACCAGCCTGGTGTGCTTATTCAGGTTTATGAAGGCGA
GCGTGCCATGACAAAGGATAACAACCTGCTTGGCAAGTTTGAAGTCACAGGCATACCTCCTGCACCCCGAGGTGT
TCCTCAGATTGAAGTCACTTTTGACATTGATGCCAATGGTATACTCAATGTCTCTGCTGTGGACAAGAGTACGGG
AAAAGAGAACAAGATTACTATCACTAATGACAAGGGCCGTTTGAGCAAGGAAGACATTGAACGTATGGTCCAGGA
AGCTGAGAAGTACAAGCTGAAGATGAGAAGCAGAGGGACAAGGTGTCTATCCAAGAATCACTTGAGTCTTATGC
CTTCAACATGAAAGCAACTGTTGAAGATGAGAACTTCAAGGCAAGATTAAAGATGAGGACAAACAGAAGATTCT
GGACAAGTGTAATGAAATTATCAACTGGCTTGATAAGAATCAGACTGCTGAGAAGGAAGAATTGAAACATCAACA
GAAAGAGCTGGAGAAAGTTTGCAACCCCATCATCACCAGCTGTACCAGAGTGCAGGAGGCATGCCAGGAGGAAT
GCCTGGGGGATTTCTGGTGGTGGAGCTCCTCCCTCTGGTGGTGTCTCCTCAGGGCCCACCATTTGAAGAGGTTGA
TTAAGCCAACCAAGTGTAGATGTAGCATTGTTCCACACATTTAAACATTTGAAGGACCTAAATTCGTAGCAAAT
TCTGTGGCAGTTTTAAAAAGTTAAGCTGCTATAGTAAGTTACTGGGCATTCTCAATACTTGAATATGGAACATAT
GCACAGGGGAAGGAAATAACATTGCACTTTATAAACACTGTATTGTAAGTGGAAGTGAATGCAATGTCTTAAATAAAA
CTATTTAAATTTGGCACCATAAAAAAAAAAAAAAAAAAAAAA

986/2777
FIGURE 878

MSKGPAVGIDLGTTYSVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVAMNPTNTVFDKRLIG
RRFDDAVVQSDMKHWPFMVVNDAGRPKVQVEYKGETKSFYPEEVSSMVLTKMKEIAEAYLGKTVTNAVVTVPAYF
NDSQRQATKDAGTIAGLNVLRINEPTAAAIAYGLDKKVGAEARNVLIFDLGGGTFDVSILTIEDGIFEVKSTAGD
THLGGEDFDNRMVNHFI AEFKRKHKKDISENKRAVRRRLTACERAKRTLSSSTQASIEIDSLYEGIDFYTSITRA
RFEELNADLFRGTLDPVEKALRDAKLDKSQIHDIVLVGGSTRIPKIQKLLQDFFNGKELNKSINPDEAVAYGAAV
QAAILSGDKSENVQDLLLLLDVTFPLSLGIETAGGVMTVLIKRNTHIPTKQTQTFTTYSQNPQGVLIQVYEGERAMT
KDNLLGKFELTGIPPAPRGVPQIEVTFDIDANGILNVSADKSTGKENKITITNDKGRLSKEDIERMVQEAKEY
KADEKQORDKVSSKNSLESYAFNMKATVEDEKLQGKINDEDKQKILDKCNEIINWLDKNQTAEEKEFEHQQKELE
KVCNPIITKLYQSAGGMPGGMPGGFPGGGAPPSGGASSGPTIEEVD

987/2777
FIGURE 879

CCTCTGCTTCCTCTAGGAACACAGGAGTTCCAGATCACATCGAGTTCACCATGAATTCACTCAGTGAAGCCAACA
CCAAGTTCAATGTTTCGATCTGTTCCAACAGTTTCAGAAAATCAAAAGAGAACAACATCTTCTATTCCCCTATCAGCA
TCACATCAGCATTAGGGATGGTCCTCTTAGGAGCCAAAGACAACACTGCACAACAAATTAGCAAGGTTCTTCACT
TTGATCAAGTCACAGAGAACACCACAGAAAAAGCTGCAACATATCATGTTGATAGGTCAGGAAATGTTTCATCACC
AGTTTCAAAAGCTTCTGACTGAATTCAACAAATCCACTGATGCATATGAGCTGAAGATCGCCAACAAGCTCTTCG
GAGAAAAGACGTATCAATTTTTACAGGAATATTTAGATGCCATCAAGAAATTTTACCAGACCAGTGTGGAATCTA
CTGATTTTGCAATGCTCCAGAAGAAAGTCGAAAGAAGATTAACCTCCTGGGTGGAAAGTCAAACGAATGAAAAA
TTAAAAACCTATTTCTGATGGGACTATTGGCAATGATACGACACTGGTTCCTTGTGAACGCAATCTATTTCAAAG
GGCAGTGGGAGAATAAATTTAAAAAAGAAAACTAAAGAGGAAAAATTTGGCCAAACAAGAATACATACAAAT
CTGTACAGATGATGAGGCAATACAATTCCTTTAATTTTGCCTTGCTGGAGGATGTACAGGCCAAGGTCCTGGAAA
TACCATACAAAGGCAAAGATCTAAGCATGATTGTGCTGCTGCCAAATGAAATCGATGGTCTGCAGAAGCTTGAAG
AGAACTCACTGCTGAGAAATTGATGGAATGGACAAGTTTGCAGAATATGAGAGAGACATGTGTCTGATTTACACT
TACCTCGGTTCAAAATGGAAGAGAGCTATGACCTCAAGGACACGTTGAGAACCATGGGAATGGTGAATATCTTCA
ATGGGGATGCAGACCTCTCAGGCATGACCTGGAGCCACGGTCTCTCAGTATCTAAAGTCCTACACAAGGCCTTTG
TGGAGGTCACTGAGGAGGGAGTGGAAGCTGCAGCTGCCACCGCTGTAGTAGTAGTCGAATTATCATCTCCTTCAA
CTAATGAAGAGTTCTGTTGTAATCACCTTTTCTTCTCATAAGGCAAAATAAGACCAACAGCATCCTCTTCT
ATGGCAGATTCTCATCCCCATAGATGCAATTAGTCTGTCACTCCATTTAGAAAATGTTACCTAGAGGTGTTCTG
GTAACTGA

988/2777
FIGURE 880

MNSLSEANTKFMFDLFQQFRKSKENNIFYSPISITSALGMVLLGAKDNTAQQISKVLHFDQVTENTTEKAATYHV
DRSGNVHHQFQKLLTEFNKSTDAYELKIANKLFGEKTYQFLQEYLDAIKKFYQTSVESTDFANAPEESRKKINSW
VESQTNEKIKNLFPDGTIGNDTTLVLVNAIYFKGQWENKFKKENTKEEFWPNKNTYKSVQMMRQYNSFNFALLE
DVQAKVLEIPYKGDLSMIVLLPNEIDGLQKLEEKLTAEKLEWTSLQNMRETCVDLHLPFRFKMEESYDLKDTLR
TMGMVNIFNGDADLSGMTWSHGLSVSKVLHKAFVEVTEEGVEAAAATAVVVVELSSPSTNEEFCCNHFFLFFIRQ
NKTNSILFYGRFSSP

989/2777
FIGURE 881

CAGAAGGATGTCGCTGCTGAGCCTGTCTTGGCTGGGCCTCAGGCCGGTGGCAGCATCCCCGTGGCTGCTCCTGCT
GGTGGTCGGGGCCTCCTGGCTCCTGGCCCCGATCCTGGCCTGGACCTATGCCTTCTATCACAACGGCCGCCGCT
CCGGTGTTTTCCCGCAGCCCCGGAAACAGAACTGGTTCTTGGGTACCTGGGCCTGGTCACTCCCACAGAGGAGGG
CTTGAGGGTCTTGACCCAGCTGGTGGCCACCTACCCCCAGGGCTTTGTGAGGTGGTTGGGCCCCATCACTCCCAT
CATCAACTTGTGCCACCCTGACATCGTCCGATCTGTCAATACCTCAGATGCCATTACAGACAAGGACATAGT
CTTCTACAAGACCCTGAAGCCCTGGCTGGGGGATGGGCTCTTGTTAAGTGTGGTGACAAGTGGAGACACCACCG
TCGCTTGCTGACGCCTGCCTTCCATTTCAACATCCTGAAGCCCTATATAAAGATTTTCAGCAAGAGTGCAAACAT
CATGCATGCCAAGTGGCAACGCCTGGCCATGGAGGGCAGCACCTGTCTGGATGTGTTTGAGCACATCAGCCTTAT
GACCCTGGACAGTCTGCAGAAATGCATCTTCAGCTTTGACAGCAATTGTCAGGAGAAGCCAGTGAATATATTAC
TGCGATCATGGAGCTCAGTGCCCTTGTAAGTGAACCGGAATAACCAGTTCTTCCGGTACAAGGACTTCTGTACTT
CCTCACTCCCTGTGGACGGCGCTTCCACAGGGCCTGCAGACTGGTGCACGACTTCACAGATGCCGTCATCCAGGA
GCGGCGCCGACCCCTCACTAGCCAGGGTGTGATGACTTCTTCCAAGCCAAGGCCAAGTCCAAGACTTTGGACTT
TATTGATGTGCTCCTGCTGAGCGAGGATAAAAAATGGTAAAGAGTTGTCAGATGAGGACATAAGAGCAGAAAGCTGA
CACTTTTCATGTTTGGAGGCCATGACACCACGGCCAGTGGCCTCTCCTGGGTCTTGTACAACCTCGCGAGGCACCC
AGAATACCAAGAACGCTGCCGGCAGGAGGTGCAAGAGCTTCTGAAGGACCGTGAGCCTAAAGAGATTGAATGGGA
CGACCTGGCCCAGTTGCCCTTCTTGACCATGTGCCTGAAGGAGAGCCTGCGGTTGCATCCCCCAATCCCTACATT
CGCCCGCGGCTGCACCCAGGACGTGGTGCTCCAGACAGCCGAGTCATCCCCAAAGGGAATGTCTGTAACATCAA
CATCTTCGCAATCCATCACAACCCCTCAGTCTGGCCAGACCCTGAGGTCTATGACCCCTTCCGCTTCGACCCCGA
AAACGCCCAGAAGAGGTACCTATGGCTTTTATTCTTTCTCGGCGGGGCCAGGAAGTGCATCGGGCAGAAAGTT
CGCGATGGCAGAGATGAAGGTGGTCTGCGCTCACGCTGCTGCGCTTCCGCATCCTGCCCCGACCACAGGGAGCC
ACGCAGGACGCCGGAGATTGTTTTGCGTGCGGAGGACGGACTTTGGCTCCGAGTAGAACCCTGGGGCTGAGGCCT
GCAGTGACCCACCCACCTACCTTTGCATCACCTACCTTTGCACCAACTACCTTTTCAGATTTCCGGTAATAAATC
TGTTGTTGGCCCCTGTGCCTCAGTCCCGCGGATGGCCAGTAGGGGGCGCTGGAGGACTGCGGGGATCTAGGGCCTG
GCTGGGAAGAGGCGGGGAGATGTCTCTGTGCCAAGATACTCACTGCCTCTCTGGGTGAGCACAGGAGCCCCGTG
CTGAGGGTGGGATCTCCAGAGTCTAAGTAAAGACTTTTTCCCCCCC

990/2777
FIGURE 882

MSLLSLSWLGLRPVAASPWLLLLLVVGASWLLARILAWTYAFYHNRRRLRCFPQPRKQNWFLGHLGLVTPTEEGLR
VLTQLVATYPQGFVRWLGPITPIINLCHPDIVRSVINTSDAITDKDIVFYKTLKPWLGDGLLLSVGDKWRHHRRL
LTPAFHFNILKPYIKIFSKSANIMHAKWQRLAMEGSTCLDVFEHISLMTLDSLQKCIFSFDNSNCQEKPSYITAI
MELSALVVKRNNQFFRYKDFLYFLTPCGRRFHRACRLVHDFDVAVIQERRRILTSQGVDDFLQAKAKSKTLDFID
VLLLEDKNGKELSDEDIKAEADTFMFGGHDTTASGLSWVLYNLARHPEYQERCQEVQELLKDREPKEIEWDDL
AQLPFLTMCLKESLRHPPIPTFARGCTQDVVLPDSRVIPKGNVCNINIFAIHHNPSVWPDPEVYDPFRFDPENA
QKRSPMAFIPFSAGPRNCIGQKFAMAEMKVVLALTLLRFRILPDHREPRRTPEIVLRAEDGLWLRVEPLG

991/2777
FIGURE 883

CCCAAGCCTTCGGGTAGGGTGCCTTCAGCCGCTACAAGAGCAGAAGCAGTGGGCATTGGATGGAGCTGAGTACAG
GACCATACAGGCTAATTGCACCGGCACAGTGAAATAAGATTTGCGCCGCTATCATCTGCTAACTGCTACGGACTC
AGGCTCAGAAAGGCCTGCGCTTCACCCAGGAATCGGATATAACATCATCTGGGTACCCATGGCCAGCTGTGACTT
CTCCATCCGCACCTACACCTATGCAGACACCCCTGATGATTTCCAGTTGCACAACCTTCAGCCTCCCAGAGGAAGA
TACCAAGCTCAAGATAACCCCTGATTACCGAGCCCTGCAGTTGGCCCAGCGTCCCGTTTCACTCCTTGCCAGCCC
CTGGACATCACCCACTCGGCTCAAGACCAGGGGAGCGGGGAATGGGAAGGGGCCACTCAAGGGACAGCCCAGAGA
CATCTACCACCAGACCTGGGCCAGATACATTGTGAAGTTCCTGGATGCCTATGCTGAGCACAAGTTACAGTTCTG
GGCAGTGACAGCTGAAAATGAGCCTTCTGCTGGGCTGTTGAGTGGATAACCCCTTCCAGTGCCTGGGCTTCACCCC
TGAACATCAGCGAGACTTCATTGCCCGTGACCTAGGTCCTACCCTTGCCAACGGTACTCACCACAATGTCCGCCT
ACTCATGCTGGATGACCAACGCTTGCTGCTGCCCCACTGGGCAAAGGTGGTACTGACAGACCCAGAAGCAGCTAA
GTATGTTTATGGTATTGCTGTACATTGGTACCTGGACTTTCTGGCTCCAGCCAAAGCCACCCTAAGGGAGACACA
CCACCTGTTCCCCAACACCATGCTCTTTGCCTCAGAGGCCTGTGTGGGTTCCAAGTTCTGGGAGCAGAGTGTGCG
GCTAGGCTCCTGGGATCGAGGGATGCAGTACAGCCACAGCATCATCACAAACCTCCTGTACCATGTGGTCGGCTG
GACCGACTGGAACCCATCATTGTAGACATCACCAAGCACACGTTTTTACAAACAGCCCATGTTCTACCACCTTGGC
CACTTCAGCAAGTTTCATTCTGAGGGCTCCCAGAGAGTGGGGCTGGTTGCCAGTCAGAAGAACGACCCGGACGCA
GTGGCACTGATGCATCCCGATGGCTCTGCTGTTGTGGTCTGTGCTAAACCGCTCCTCTAAGGATGTGCCTCTTACC
ATCAAGGATCCTGCTGTGGGCTTCTGGAGACAATCTCACCTGGCTACTCCATTACACCTACCTGTGGCGTCGC
CAGTGATGGAGCAGATACTCAAGGAGGCACTGGGCTCAGCCTGGGCATTAAAGGGACAGAGTCAGCTCACACGCT
GTCTGTGACTAAAGAGGGGCACAACAGGGCCAGCGTGACGTTACAGCGACGTAAGCCCAGGGGCAATGGTTTGGGT
GACTCACTTTCCCTCTAGGCGGTGCCAGGGGCTGGAGGCCCTAGAAAAAGATCAGTAAGCCCCAGTGTCCCCC
CAGCCCCCATGCTTATGTGAACATGCGCTGTGTGCTGCTTGTCTTTGGAACTGGGCCTGGGTCCAGGCCTAGGGT
GAGCTCACTGTCCGTACAAACACAAGATCAGGGCTGAGGGTAAGGAAAAGAAGAGACTAGGAAAGCTGGGCCCAA
AACTGGAGACTGTTTGTCTTCTTCTGGAGATGCAGAACTGGGCCCGTGGAGCAGCAGTGTGAGCATCAGGGCGGAA
GCCTTAAAGCAGCAGCGGGTGTGCCCAGGCACCCAGATGATTCTATGGCACCAGCCAGGAAAAATGGCAGCTCT
TAAAGGAGAAAAATGTTTGAGCCC

992/2777
FIGURE 884

MASCDFSIRTYTYADTPDDFQLHNFSLPEEDTKLKIPLIHRALQLAQRPVSLASPWTSPTRLKTRGAGNGKGPL
KGQPRDIYHQTWARYIVKFLDAYAEHKLQFWAVTAENEPSAGLLSGYPFQCLGFTPEHQDFIARDLGPTLANGT
HHNVRLMLDDQRLLLPHWAKVVLTDPEAAKYVHGIAVHWYLDFLAPAKATLRETHLFPNTMLFASEACVGSKF
WEQSVRLGSWDRGMQYSHSIITNLLYHVVGWTDWNPSL

993/2777
FIGURE 885

ĀAGGAGGCGGCCTCCGGGAAAĀGCGACCGCAGGACTCCTGAGAGCAGCCTCCATGAGGCCCTGGACCAGTGCATG
ACCGCCCTGGACCTCTTCCTCACCAACCAGTTCTCAGAAGCACTCAGCTACCTCAAGCCCAGAACCAAGGAAAGC
ATGTACCACTCACTGACATATGCCACCATCCTGGAGATGCAGGCCATGATGACCTTTGACCCTCAGGACATCCTG
CTTGCCGGCAACATGATGAAGGAGGCACAGATGCTGTGTGTCAGAGGCACCGGAGGAAGTCTTCTGTAACAGATTCC
TTCAGCAGCCTGGTGAACCGCCCCACGCTGGGCCAATTCACTGAAGAAGAAATCCACGCTGAGGTCTGCTATGCA
GAGTGCTGCTGCAGCGAGCAGCCCTGACCTTCCTGCAGGACGAGAACATGGTGAGCTTCATCAAAGGCGGCATC
AAAGTTCGAAACAGCTACCAGACCTACAAGGAGCTGGACAGCCTTGTTGAGTCTCACAATACTGCAAGGGTGAG
AACCACCCGCACTTTGAAGGAGGAGTGAAGCTTGGTGTAGGGGCCTTCAACCTGACACTGTCCATGCTTCCTACT
AGGATCCTGAGGCTGTTGGAGTTTGTGGGGTTTTTCAGGAAACAAGGACTATGGGCTGCTGCAGCTGGAGGAGGGA
GCGTCAGGGCACAGCTTCCGCTCTGTGCTCTGTGTGTCATGCTCCTGCTGTGCTACCACACCTTCCTCACCTTCGTG
CTCGGTACTGGGAACGTCAACATCGAGGAGGCCGAGAAGCTCTTGAAGCCCTACCTGAACCGGTACCCTAAGGGT
GCCATCTTCCTGTTCTTTGCAGGGAGGATTGAAGTCATTAAAGGCAACATTGATGCAGCCATCCGGCGTTTCGAG
GAGTGCTGTGAGGCCAGCAGCACTGGAAGCAGTTTCACCACATGTGCTACTGGGAGCTGATGTGGTGCTTCACC
TACAAGGGCCAGTGGAAGATGTCCTACTTCTACGCCGACCTGCTCAGCAAGGAGAACTGCTGGTCCAAGGCCACC
TACATTTACATGAAGGCCGCTACCTCAGCATGTTTGGGAAGGAGGACCACAAGCCGTTTCGGGGACGACGAAGTG
GAATTATTTTCGAGCTGTGCCAGGCCTGAAGCTCAAGATTGCTGGGAAATCTCTACCCACAGAGAAGTTTGCCATC
CGGAAGTCCCGCGCTACTTCTCCTCCAACCCTATCTCGCTGCCAGTGCCTGCTCTGGAAATGATGTACATCTGG
AACGGCTACGCCGTGATTGGGAAGCAGCCGAAACTCACGGATGGGATACTTGAGATTATCACTAAGGCTGAAGAG
ATGCTGGAGAAAGGCCCAGAGAACGAGTACTCAGTGGATGACGAGTGCTTGGTGAAATTGTTGAAAGGCCCTGTGT
CTGAAATACCTGGGCCGTGTCCAGGAGGCCGAGGAGAATTTTAGGAGCATCTCTGCCAATGAAAAGAAGATTAAA
TATGACCACTACTTGATCCCAAACGCCCTGCTGGAGCTGGCCCTGCTGCTTATGGAGCAAGACAGAAACGAAGAG
GCCATCAAACCTTTTGGAACTCTGCCAAGCAAACTACAAGAATTACTCCATGGAGTCAAGGACACACTTTCGAATC
CAGGCAGCCACACTCCAAGCCAAGTCTTCCCTAGAGAACAGCAGCAGATCCATGGTCTCATCAGTGTCTTGTAG

CTTTGTGCAGCAGTTCCGGGCTGGAAGACAGAGACAGCTGGACAGAGCTCCTGAAAACATTTCAAAAATACCCCT
CCCCCTGCCCTGCCCTGCCCTTTGGGGTCCACCGGCACTCCAGTTGGATGGCACAACATAGTGTATCCGTGCAGAA
GCCGAGCTGGCATTTCACCAGTGTAGCCAAGGGCCTTTGCCAAGGGCAGAGCAGGTGGAGCCCTCTGCCTGCC
TATCACACATACGGGTACTTGCTTTTCACTGTGATGTTTAAGAGAATGTATGAACAGTTTACATTTTCCTTAGAA
ATACATTGATGGGATCACAGTTGGCTTTAAAAACCAACAACAATCAACCACCTGTAAGTCTTTGTCTTCACCTAT
TATCATCTGGAGGTAAATCTCTTTATATGATGATGCCAAGGGCAAATTGCTTTTCAAATTCAGCAAGTTCTCAG
CTTGTGTGACGGAAGGTCTTCAGAGGACCTGAGGAATGCCTGGGAGAGGCTAAGCCTCAGGCTTCAATGCTTCT
GGGGTTGGGCATGAGGATGTACACAGACACCCACTACCTTACTACTCACACTTCATTTCACTCCTTTTGTAATT
TCCAATTTAAAAATCAAGCACGTCTTTTGTAGTGAGATAAAATCTGAGCTCTTCTGTAGAAAAATCAATCTCTACC
AGTAGAAAATGCCAGGGCTTGATGGAAGAGCTGTGTAGCCCTTTCTATGCCAAGCCAGGAAATTTGGGGGGCAG
GAGGAGGTTCTCAGAATCCAGTCTGTATCTTTGCTGTATGCCAAACTGAAACCACTGGGAATAATTTATGAAACA
TAAAAATCTTCTGTACTTCACTCCAAGGTACATTTGCTTACTGACAGCATTTTGTGTTAAACTGTTATTCTTGAA
AAAAAAAAAAAAAAAAAAAA

994/2777
FIGURE 886

KEAASGKSDRRTPÉSSLHEALDQCMTALDLFLTNQFSEALSYLKPRTKESMYHSLTYATILEMQAMMTFDPQDIL
LAGNMMKEAQMLCQRHRRKSSVTDSEFSSLVNRPTLGQFTEEEIHAEVCYAECLLQRAALTFLQDENMVSVFIKGGI
KVRNSYQTYKELDSLQSSQYCKGENHPHFEGGVKLGVGAFNLTLTMLPTRLRLLEFVGFSGNKDYGLLQLEEG
ASGHSFRSVLCVMLLLCYHTFLTFVLGTGNVNIEEAELLKPYLNRYPKGAIFLFFAGRIEVIKGNIDAAIRRF
ECCEAQQHWKQFHMCYWELMWCFYKQWKMSYFYADLLSKENCWSKATYIYMKAAYLSMFGKEDHKPFGDDEV
ELFRAVPGLKLKIAGKSLPTEKFAIRKSRRYFSSNPISLPVPALEMMYIWNGYAVIGKQPKLTDGILEIITKAE
MLEKGPENEYSVDDECLVKLLKGLCLKYLGRVQEAENFRSISANEKKIKYDHYLIPNALLELALLMEQDRNEE
AIKLESACKQNYKNYSMESRTHFRIQAATLQAKSSLENSRRSMVSSVSL

995/2777
FIGURE 887

AAGAACTGGCCTGTACATTTTCAAGGAATTCTTGAGAGGTTCTTGAGAGATTCTGGGAGCCAAACACTCCATTG
GGATCCTAGCTGTTTTAGAGAACAACCTTGTAATGGAGCCTTCATCTCTTGAGCTGCCGGCTGACACAGTGCAGCG
CATTGCGGCTGAACTCAAATGCCACCCAACGGATGAGAGGGTGGCTCTCCACCTAGATGAGGAAGATAAGCTGAG
GCACCTCAGGGAGTGCTTTTATATTCCCAAAATACAGGATCTGCCTCCAGTTGATTTATCATTAGTGAATAAAGA
TGAAAATGCCATCTATTTCTTGGGAAATTCTCTTGGCCTTCAACCAAAAATGGTTAAAACATATCTTGAAGAAGA
ACTAGATAAGTGGGCCAAAATAGCAGCCTATGGTCATGAAGTGGGGAAGCGTCCTTGGATTACAGGAGATGAGAG
TATTGTAGGCCTTATGAAGGACATTGTAGGAGCCAATGAGAAAGAAATAGCCCTAATGAATGCTTTGACTGTAAA
TTTACATCTTCTAATGTTATCATTTTTTTAAGCCTACGCCAAAACGATATAAAATTCTTCTAGAAGCCAAAGCCTT
CCCTTCTGATCATTATGCTATTGAGT'CACAACCTACAACCTTACGGACTTAACATTGAAGAAAAGTATGCGGATGAT
AAAGCCAAGAGAGGGGGGAAGAAACCTTAAGAATAGAGGATATCCTTGAAGTAATTGAGAAGGAAGGAGACTCAAT
TGCAGTGATCCTGTTTCAGTGGGGTGCATTTTTTACACTGGACAGCACTTTAATATTCTTGCCATCACAAAAGCTGG
ACAAGCGAAGGGTTGTTATGTTGGCTTTGATCTAGCACATGCAGTTGGAAATGTTGAACTCTACTTACATGACTG
GGGAGTTGATTTTGCCTGCTGGTGTTCCTACAAGTATTTAAATGCAGGAGCAGGAGGAATTGCTGGTGCCTTCAT
TCATGAAAAGCATGCCCATACGATTAAACCTGCATTAGTGGGATGGTTTGGCCATGAACTCAGCACCAGATTTAA
GATGGATAACAAACTGCAGTTAATCCCTGGGGTCTGTGGATTCCGAATTTCAAATCCTCCCATTTTGTGGTCTG
TTCCTTGCACTAGTTTAGAGATCTTTAAGCAAGCGACAATGAAGGCATTGCGGAAAAAATCTGTTTTGCTAAC
TGGCTATCTGGAATACCTGATCAAGCATAACTATGGCAAAGATAAAGCAGCAACCAAGAAACCAGTTGTGAACAT
AATTACTCCGTCTCATGTAGAGGAGCGGGGGTGCCAGCTAACAATAACATTTTCTGTTCCAAACAAAGATGTTTT
CCAAGAACTAGAAAAAAGAGGAGTGGTTTGTGACAAGCGGAATCCAATGGCATTTCGAGTGGCTCCAGTTCCTCT
CTATAATTCTTTCCATGATGTTTATAAATTTACCAATCTGCTCACTTCTATACTTGACTCTGCAGAAACAAAAA
TTAGCAGTGTTTTCTAGAACAACCTTAAGCAAATTATACTGAAAGCTGCTGTGGTTATTTAGTATTATTCGATT
TTAATTATTGAAAGTATGTCACCATTGACCACATGTAACATAACAATAAATAATATACCTTAC

996/2777
FIGURE 888

MEPSSLELPADTVQRIAAELKCHPTDERVALHLDEEDKLRHFRECFYIPKIQDLPPVDLSLVNKDENAIYFLGNS
LGLQPKMVKTYLEEEELDKWAKIAAYGHEVGKRPWITGDESIVGLMKDIVGANKEIAlMNALTvNLHLLMLSFFK
PTPKRYKILLEAKAFPSDHYAIESQLQLHGLNIEESMRMIKPREGEETLRIEDILEVIEKEGDSIAVILFSGVHF
YTGQHFNIIPAITKAGQAKGCYVGFDLAHAVGNVELYLHDWGVDFACWCSYKYLNAGAGGIAGAFIHEKHAHTIKP
ALVGWFGHELSTRFKMDNKLQLIPGVCGRISNPPILLVCSLHASLEIFKQATMKALRKKSvLLTGYLEYLIKHn
YGKDKAATKKPVVNIITPSHVEERGQCLTITFSVPNKDVFQELEKRGVVCDKRNPNGIRVAPVPLYNsFHDVYKF
TNLLTSILDSAETKN

997/2777
FIGURE 889

TCCAATCGACAAGAAGCTGGAAAAGAATGATGTTGTCCTTAAACAACCTACAGAATATCATCTATAACCCGGTAA
TCCCGTTTGTGGCACCATTCCCTGATCAGCTGGATCCTGGAACCTTTGATTGTGATACGTGGGCATGTTCCCTAGTG
ACGCAGACAGATTCCAGGTGGATCTGCAGAATGGCAGCAGCATGAAACCTCGAGCCGATGTGGCCTTTCATTTCA
ATCCTCGTTTCAAAGGGCCGGCTGCATTGTTTGCAATACTTTGATAAATGAAAAATGGGGACGGGAAGAGATCA
CCTATGACACGCCCTTCAAAGAGAGAAAAGTCTTTTGAGATCGTGATTATGGTGCTGAAGGACAAATTCAGGTGG
CTGTAAATGGAAAACATACTCTGCTCTATGGCCACAGGATCGGCCAGAGAAAATAGACACTCTGGGCATTTATG
GCAAAGTGAATATTTCACTCAATTGGTTTTAGCTTCAGCTCGGACTTACAAAGTACCCAAGCATCTAGTCTGGAAC
TGACAGAGATAAGTAGAGAAAATGTTCAAAGTCTGGCACGCCCCAGCTTCCTAGTAATAGAGGAGGAGACATTT
CTAAAATCGCACCCAGAAGTGTCTACACCAAGAGCAAAGATTGACTGTCAATCACACTTTGACTTGCACCAAAA
TACCACCTATGAACTATGTGTCAAAGAGGCTGCCATTGCTGCAAGGTTGAACACCCCCATGGGCCCTGGACGAA
CTGTGCTCGTTAAAGGAGAAAGTGAATGCAAATGCCAAAAGCTTTAATGTTGACCTACTAGCAGGAAAATCAAAGG
ATATTGCTCTACACTTGAACCCACGCCTGAATATTAAAGCATTGTGAAGAAATCTTTTCTTCAGGAGTCCTGGG
GAGAAGAAGAGAGAAAATATTACCTCTCTCCCATTTAGTCTGGGATGTACTTTGAGATGATAATTTATTGTGATG
TTAGAGAATTCAAGGTTGCAGTAAATGGCGTACACAGCCTGGAGTACAAACACAGATTTAAAGAGCTCAGCAGTA
TTGACACGCTGGAAATTAATGGAGACATCCACTTACTGGAAGTAAGGAGCTGGTAGCCTACCTACACAGCTGCTA
CAAAAACCAAAATACAGAATGGCTTCTGTGATACTGGCCTTGC

998/2777
FIGURE 890

MMLSLNNLQNI IYNPVI PFVGTIPDQLDPGTLIVIRGHVPSDADRFQVDLQNGSSMKPRADVAFHFNPRFKRAGC
IVCNTLINEKWGREEITYDTPFKREKSFEIVIMVLKDKFQVAVNGKHTLLYGHRIGPEKIDTLGIYGVNIHSIG
FSFSSDLQSTQASSLELTEISRENVPKSGTPQLPSNRGGDISKIAPRTVYTKSKDSTVNHTLTCTKIPPMNYVSK
RLPFAARLNTPMGPGRTVVVKG EVNANAKSFNVDLLAGKSKDIALHLNPRLNKAFVRNSFLQESWGEEERNITS
LPFSPGMYFEMIIYCDVREFKVAVNGVHSLEYKHRFKELSSIDTLEINGDIHLLEVRW

999/2777
FIGURE 891

TCGGCCGAGCCCAGAGACAGCCAGTTCTCTCCCGCCGCGCCGGGCCGCGTGCCGCTCGCTCCCCGGCCGTGGCG
CCTCCGGGCCAGACGCGCTGCAGCCTCCAGCCCCGCGCAAGCGGGCGGGGCGGCCGCGCCACCCCGGCCCGCG
CCAGCAGCCCCCTCGCCGCGCGTCCAGCGTTCCCGGCCAGCAGCCTCCCCATACGCAGTCTGTGCTGGACCGCCCCG
TCGCGCCCCCCTCTGAACTCAAGTCACCGTGGAGCTCCGCCGCCCGAAACTTTACGCGAGCGGGAAATATG

GGATGTATAAAATCAAAAGGGAAAGACAGCTTGAGTGACGATGGAGTAGATTTGAAGACTCAACCAGTACGTAAT
ACTGAAAGAACTATTTATGTGAGAGATCCAACGTCCAATAAACAGCAAAGGCCAGTTCCAGAATCTCAGCTTTTA
CCTGGACAGAGGTTTCAAATAAAGATCCAGAGGAACAAGGAGACATTGTGGTAGCCTTGTACCCCTATGATGGC
ATCCACCCGGACGACTTGTCTTTCAAGAAAGGAGAGAAGATGAAAGTCCTGGAGGAGCATGGAGAATGGTGGAAA
GCAAAGTCCCTTTTAACAAAAAAGAGGCTTCATCCCCAGCAACTATGTGGCCAACTCAACACCTTAGAAACA
GAAGAGTGGTTTTTCAAGGATATAACCAGGAAGGACGCAGAAAGGCAGCTTTTGGCACCAGGAAATAGCGCTGGA
GCTTTCTTATTAGAGAAAAGTGAACATTAAAAGGAAGCTTCTCTGTCTGTCTCAGAGACTTTGACCCTGTGCAT
GGTGATGTTATTAAGCACTACAAAATTAGAAGTCTGGATAATGGGGCTATTACATCTCTCCACGAATCACTTTT
CCCTGTATCAGCGACATGATTAAACATTACCAAAGCAGGCAGATGGCTTGTGCAGAAGATTGGAGAAGGCTTGT
ATTAGTCCCAAGCCACAGAAGCCATGGGATAAAGATGCCTGGGAGATCCCCCGGGAGTCCATCAAGTTGGTGAAA
AGGCTTGGCGCTGGGCAGTTTGGGGAGTCTGGATGGGTTACTATAACAACAGTACCAAGGTGGCTGTGAAAACC
CTGAAGCCAGGAACTATGTCTGTGCAAGCCTTCTGGAAGAAGCCAACCTCATGAAGACCCTGCAGCATGACAAG
CTCGTGAGGCTCTACGCTGTGGTCACCAGGGAGGAGCCATTTACATCATCACCGAGTACATGGCCAAGGGCAGT
TTGCTGGATTTCTGAAGAGCGATGAAGGTGGCAAAGTGCTGCTTCCAAAGCTCATTGACTTTTCTGCTCAGATT
GCAGAGGGAATGGCATACTCGAGCGGAAGAACTACATTACCGGGACCTGCGAGCAGCTAATGTTCTGGTCTCC
GAGTCACTAATGTGCAAAATTGCAGATTTTGGCCTTGCTAGAGTAATTGAAGATAATGAGTACACAGCAAGGGAA
GGTGCTAAGTTCCCTATTAAGTGGACGGCTCCAGAAGCAATCAACTTTGGATGTTTCACTATTAAGTCTGATGTG
TGGTCCTTTGGAATCCTCCTATACGAAATTGTCACCTATGGGAAAATTCCCTACCCAGGGAGAACTAATGCCGAC
GTGATGACCGCCCTGTCCAGGGCTACAGGATGCCCCGTGTGGAGAACTGCCAGATGAGCTCTATGACATTATG
AAAATGTGCTGGAAAGAAAAGGCAGAAGAGAGACCAACGTTTGACTACTTACAGAGCGTCTGGATGATTTCTAC
ACAGCCACGGAAGGGCAATACCAGCAGCAGCCTTAGAGCACAGGGAGACCCGTCCATTTGGCAGGGGTGGCTGCC
TCATTTAGAGAGGAAAAGTAACCATCACTGGTTGCACTTATGATTTTATGTGCGGGGATCATCTGCCGTGCCTGG
ATCCTGAAATAGAGGCTAAATTACTCAGGAAGAACACCCTCTAAATGGGAAAGTATTCTGTACTCTTAGATGGAT
TCTCCACTCAGTTGCAACTTGGACTTGTCTCAGCAGCTGGTAATCTTGCTCTGCTTGACAACATCTGAGTGCAG
CCGTTTGAGAAGAAAACATCTATTCTCTCAAAAATGCACCAACTAGCTCTATGTTTACAAATGGACATAGGAC
TCAAAGTTTCAGAGACCATTGCAATGAATCCCCAATAATTGCAGAACTAAACTCATTTATAAAGCTAAAATAACC
GGATATATACATAGCATGACATTTCTTTGTGCTTTGGCTTACTTGTTT

1000/2777
FIGURE 892

MGCIKSKGKDSLSDDGVDLKTQPVNRNTERTIYVRDPTSNKQQRFPVPESQLLPGQRFQTKDP EEQGDIVVALYPYD
GIHPDDL SFKKGEKMKVLEEHGEWWKAKSLLTKKEGFIPSNYVAKLNTLETEEWWFFKDITRKDAERQL LAPGNSA
GAFLIRESETLKGSFSLSVRDFDPVHG DVIKHYKIRSLDNNGGYYISPRITFPCISDMIKHYQKQADGLCRRLEKA
CISPKPQKPWDKDAWEIPRESIKLVKRLGAGQFGEVWMGYNNSTKVAVKTLKPGTMSVQAFLE EANLMKTLQHD
KLVRLYAVVTREPIYIITEYMAKGSLLDFLKSD EGGKVLLPKLIDFSAQIAEGMAYIERKNYIHRDLRAANVLV
SESLMCKIADFGLARVIEDNEYTAREGAKFP IKWTAPEAINFGCFTIKSDVWSFGILLYEIVTYGKIPYPGRTNA
DVMTALSQGYRMPRVENC PDELYDIMKMCWKEKAEERPTFDY LQSVLDDFYTATEGQYQQQP

1001/2777
FIGURE 893

AGAGACTCAAGATGATTCCCTTTTTACCCATGTTTTCTCTACTATTGCTGCTTATTGTTAACCTTATAAACGCCA
ACAATCATTATGACAAGATCTTGGCTCATAGTCGTATCAGGGGTCGGGACCAAGGCCCAAATGTCTGTGCCCTTC
AACAGATTTTGGGCACCAAAAAGAAATACTTCAGCACTTGTAAGAACTGGTATAAAAAGTCCATCTGTGGACAGA
AAACGACTGTTTTATATGAATGTTGCCCTGGTTATATGAGAATGGAAGGAATGAAAGGCTGCCAGCAGTTTTGTC
CCATTGACCATGTTTTATGGCACTCTGGGCATCGTGGGAGCCACCACAACGCAGCGCTATTCTGACGCCTCAAAAC
TGAGGGAGGAGATCGAGGGAAAGGGATCCTTCACTTACTTTGCACCGAGTAATGAGGCTTGGGACAACTTGGATT
CTGATATCCGTAGAGGTTTGGAGAGCAACGTGAATGTTGAATTACTGAATGCTTTACATAGTCACATGATTAAATA
AGAGAATGTTGACCAAGGACTTAAAAAATGGCATGATTATTCCTTCAATGTATAACAATTTGGGGCTTTTTCTTA
ACCATTATCCTAATGGGGTTGTCACTGTTAATTGTGCTCGAATCATCCATGGGAACCAGATTGCAACAAATGGTG
TTGTCCATGTCAATTGACCGTGTGCTTACACAAATTGGTACCTCAATTCAAGACTTCATTGAAGCAGAAAGATGACC
TTTCATCTTTTAGAGCAGCTGCCATCACATCGGACATATTGGAGGCCCTTGGAAAGAGACGGTCACTTCACACTCT
TTGCTCCCAACATGAGGCTTTTGAGAACTTCCACGAGGTGTCTAGAAAGGTTTCATGGGAGACAAAGTGGCTT
CCGAAGCTCTTATGAAGTACCACATCTTAAATACTCTCCAGTGTTCTGAGTCTATTATGGGAGGAGCAGTCTTTG
AGACGCTGGAAGGAAATACAATTGAGATAGGATGTGACGGTGACAGTATAACAGTAAATGGAATCAAAATGGTGA
ACAAAAAGGATATTGTGACAAATAATGGTGTGATCCATTGATTGATCAGGTCTTAATTCTGATTCTGCCAAAC
AAGTTATTGAGCTGGCTGGAAAAACAGCAAACACCTTACGGATCTTGTGGCCCAATTAGGCTTGGCATCTGCTC
TGAGGCCAGATGGAGAATACACTTTGCTGGCACCTGTGAATAATGCATTTTCTGATGATACTCTCAGCATGGTTC
AGCGCTCTCTTAAATTAATTCTGCAGAATCACATATTGAAAGTAAAAGTTGGCCTTAATGAGCTTTACAACGGGC
AAATACTGGAACCATCGGAGGCAAACAGCTCAGAGTCTTCGTATATCGTACAGCTGTCTGCATTGAAAATTCAT
GCATGGAGAAAGGGAGTAAGCAAGGGAGAAACGGTGCATTACATATTCCGCGAGATCATCAAGCCAGCAGAGA
AATCCCTCCATGAAAAGTTAAACAAGATAAGCGCTTTAGCACCTTCCTCAGCCTACTTGAAGCTGCAGACTTGA
AAGAGCTCCTGACACAACCTGGAGACTGGACATTATTTGTGCCAACCAATGATGCTTTTAAGGGAATGACTAGTG
AAGAAAAAGAAATTCGTACGGGACAAAAATGCTCTTCAAACATCATTCTTTATCACCTGACACCAGGAGTTT
TCATTGGAAGGATTGAACTGGTGTTACTAATTTTAAAGACCACACAAGGAAGCAAAATCTTTCTGAAAG
AAGTAAATGATACACTTCTGGTGAATGAATTGAAATCAAAGAATCTGACATCATGACAACAAATGGTGTAAATC
ATGTTGTAGATAAACTCCTCTATCCAGCAGACACACCTGTTGGAAATGATCAACTGCTGGAAATACTTAATAAAT
TAATCAAATACATCCAAATTAAGTTTGTTCGTGGTAGCACCTTCAAAGAAATCCCCGTGACTGTCTATACAATA
AAATTATAACCAAAGTTGTGGAAACCAAAATTAAGTGATTGAAGGCAGTCTTCAGCCTATTATCAAACTGAAG
GACCCACACTAACAAAAGTCAAAATTGAAGGTGAACCTGAATTGAGACTGATTAAAGAAGGTGAAACAATACTG
AAGTGATCCATGGAGAGCCAATTATTAAAAAATACACCAAAATCATTGATGGAGTGCCTGTGGAAATAACTGAAA
AAGAGACACGAGAAGAACGAATCATTACAGGTCTGAAATAAAATACACTAGGATTTCTACTGGAGGTGGAGAAA
CAGAAGAACTCTGAAGAAATTGTTACAAGAAGAGGTACCAAGGTACCAAAATTCATTGAAGGTGGTGTGGTTC
ATTTATTTGAAGATGAAGAAATTAAAAGACTGCTTCAGGGAGACACACCCGTGAGGAAGTTGCAAGCCAACAAA
AAGTTCAAGGTCTAGAAGACGATTAAGGGAAGGTGCTTCTCAGTGAATAATCCAAAAACCAGAAAAAATGTTTA
TACAACCCTAAGTCAATAACCTGACCTTAGAAAATTGTGAGAGCCAAGTTGACTTCAGGAACTGAAACATCAGCA
CAAAGAAGCAATCATCAATAATTCTGAACACAAATTAATATTTTTTTTTCTGAATGAGAAACATGAGGGAAAT
TGTGGAGTTAGCCTCCTGTGGTAAAGGAATTGAAGAAAATATAACACCTTACACCTTTTTTCATCTTGACATTAA
AAGTTCTGGCTAACTTTGGAATCCATTAGAGAAAAATCCTTGTCAACAGATTCATTACAATTCAAATCGAAGAGT
TGTGAACTGTTATCCCATGAAAAGACCGAGCCTTGTATGTATGTTATGGATACATAAAATGCACGCAAGCCATT
ATCTCTCCATGGGAAGCTAAGTTATAAAAAATAGGTGCTTGGTGTACAAAACTTTTTATATCAAAAGGCTTTGCAC
ATTTCTATATGAGTGGGTTTACTGGTAAATTATGTTATTTTTTACAACATAATTTTGTACTCTCAGAATGTTTGTG
ATATGCTTCTTGCAATGCATATTTTTTAATCTCAAACGTTTCAATAAAACCATTTTTTCAGATATAAAGAGAATTA
CTTCAAAATTGAGTAATTCAGAAAACTCAAGATTTAAGTTAAAAGTGTTTGGACTTGGGAA

1002/2777
FIGURE 894

MIPFLPMFSLLLLLIVNPINANNHYDKILAHSRIRGRDQGPNCALQQILGTTKKYFSTCKNWKKSICGQKTTV
LYECCPGYMRMEGMKGCPAVLPIDHVGTLGIVGATTTQRYSDASKLREEIEGKGSFTYFAPSNEAWDNLDSDIR
RGLESNVNVELLNALHSHMINKRMLTKDLKNGMIIPSMYNNLGLFINHYPNGVVTVNCARIIHGNQIATNGVVHV
IDRVLTQIGTSIQDFIEAEDDLSSFRAAAITSDILEALGRDGHFTLFAPTNEAFEKLPRGVLERFMGDKVASEAL
MKYHILNTLQCSESIMGGAVFETLEGNTIEIGCDGDSITVNGIKMVNKKDIVTNNGVIHLIDQVLIPDSAKQVIE
LAGKQQTTFDTDLVAQLGLASALRPDGEYTLLAPVNNAFSDDTLSMVQRLLKLILQNHILKVKVGLNELYNGQILE
TIGGKQLRVFVYRTAVCIENSCMEKGSQGRNGAIHIFREIIKPAEKSLEKLKQDKRFSTFLSLLEAADLKELL
TQPGDWTLFVPTNDAFKGMTSEEKEILIRDKNALQNIILYHLTPGVFIGKGFEPGVNLIKTTQGSKIFLKEVND
TLLVNELKSKESDIMTTNGVIHVVDKLLYPADTPVGNDQLEILNKLIKYIQIKFVRGSTFKEIPVTVYTTKIIT
KVVEPKIKVIEGSLQPIIKTEGPTLTKVKIEGEPEFRLIKEGETITEVIHGEPIIKKYTKIIDGVPVEITEKETR
EERIITGPEIKYTRISTGGGETEETLKLLQEEVTKVTKFIEGGDGHLEDEEIKRLLQGDTPVRKLQANKKVQG
SRRRLREGRSQ

1003/2777
FIGURE 895

CGGAGCGAGGCAGCGCGCCCGGCTCCCGCGCCATGGGGCGGCTGGTGGCTGTGGGCTTGCTGGGGATCGCGCTGG
CGCTCCTGGGCGAGAGGCTTCTGGCACTCAGAAATCGACTTAAAGCCTCCAGAGAAGTAGAATCTGTAGACCTTC
CACACTGCCACCTGATTAAAGGAATTGAAGCTGGCTCTGAAGATATTGACATACTTCCCAATGGTCTGGCTTTTT
TTAGTGTGGGTCTAAAATTCCAGGACTCCACAGCTTTGCACCAGATAAGCCTGGAGGAATACTAATGATGGATC
TAAAAGAAGAAAAACCAAGGGCACGGGAATTAAGAATCAGTCGTGGGTTTGATTTGGCCTCATTCAATCCACATG
GCATCAGCACTTTTCATAGACAACGATGACACAGTTTATCTCTTTGTTGTAAACCACCCAGAATTCAAGAATACAG
TGGAAATTTTTAAATTTGAAGAAGCAGAAAATTCTCTGTTGCATCTGAAAACAGTCAAACATGAGCTTCTTCCAA
GTGTGAATGACATCACAGCTGTTGGACCGGCACATTTCTATGCCACAAATGACCACTACTTCTCTGATCCTTTCT
TAAAGTATTTAGAAACATACTTGAACCTTACACTGGGCAAATGTTGTTTACTACAGTCCAAATGAAGTTAAAGTGG
TAGCAGAAGGATTTGATTTCAGCAAATGGGATCAATATTTACCTGATGATAAGTATATCTATGTTGCTGACATAT
TGGCTCATGAAATTCATGTTTTGGAAAAACACACTAATATGAATTTAACTCAGTTGAAGGTACTTGAGCTGGATA
CACTGGTGGATAATTTATCTATTGATCCTTCCCTCGGGGGACATCTGGGTAGTCTGTCTATCCTAATGGCCAGAAGC
TCTTCGTGTATGACCCGAACAATCCTCCCTCGTCAGAGGTTCTCCGCATCCAGAACATTCTATCTGAGAAGCCTA
CAGTGACTACAGTTTATGCCAACAATGGGTCTGTTCTCCAAGGAAGTTCTGTAGCCTCAGTGTATGATGGGAAGC
TGCTCATAGGCACTTTATACCACAGAGCCTTGATTGTGAACTCTTAAAATTGTACTTTTGGCATGAAAGTGCGATA
ACTTAACAATTAATTTTTCTATGAAATTGCTAATTCTGAGGGAATTTAACCAGCAACATTGACCCAGAAATGTATG
GCATGTGTAGTTAATTTTTATTCCAGTAAGGAACGGCCCTTTTAGTTCTTAGAGCACTTTTAAACAAAAAAGGAAAA
TGAACAGGTTCTTTAAATGCCAAGCAAGGGACAGAAAAGAAAGCTGCTTTCGAATAAAGTGAATACATTTTGCA
CAAAGTAAGCCTCACCTTTGCCTTCCAAGTCCAGAACATGGATTCCACTGAAATAGAGTGAATTATATTTCTT
AAAATGTGAGTGACCTCACTTCTGGCACTGTGACTACTATGGCTGTTTAGAACTACTGATAATAACGTATTTTGA
TGTTTTGTACTTACATCTTTGTTTACCATTAAAAAGTTGGAGTTATATTAAAGACTAACTAAAATCCCCAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAA

1004/2777
FIGURE 896

MGRLVAVGLLGIALALLGERLLALRNRLKASREVESVDLPHCHLIKIEAGSEDIDILPNGLAFFSVGLKFPGLH
SFAPDKPGGILMMDLKEEKPRARELRISRGFDLASFNPHGISTFIDNDDTVYLFVVNHPEFKNTVEIFKFEEAEN
SLLHLKTVKHELLPSVNDITAVGPAHFYATNDHYFSDPFLKYLETYLNLHWANVVYYSPNEVKVVAEGFDSANGI
NISPDDKYIYVADILAHEIHVLEKHTNMNLTQLKVLELDTLVDNLSIDPSSGDIWVCHPNGQKLFVYDPNNPFS
SEVLRIQNILSEKPTVTTVYANNGSVLQGSSVASVYDGKLLIGTLYHRALYCEL

1005/2777
FIGURE 897A

TGCCAAGGCTCCAGCCCGGCCGGGCTCCGAGGCGAGAGGCTGCATGGAGTGGCCGGCGCGGCTCTGCGGGCTGTG
GGCGCTGCTGCTCTGCGCCGGCGGGGGCGGGGGCGGGGGCGCCGCGCTACGGAACTCAGCCACCTGTGAC
AAATTTGAGTGTCTCTGTTGAAAACCTCTGCACAGTAATATGGACATGGAATCCACCCGAGGGAGCCAGCTCAAA
TTGTAGTCTATGGTATTTTAGTCATTTTGGCGACAAACAAGATAAGAAAATAGCTCCGGAACTCGTCGTTCAAT
AGAAGTACCCCTGAATGAGAGGATTTGTCTGCAAGTGGGGTCCCAGTGTAGCACCAATGAGAGTGAGAAGCCTAG
CATTTTGGTTGAAAAATGCATCTCACCCCCAGAAGGTGATCCTGAGTCTGCTGTGACTGAGCTTCAATGCATTTG
GCACAACCTGAGCTACATGAAGTGTCTTGGCTCCCTGGAAGGAATACCAGTCCCGACACTAACTATACTCTCTA
CTATTGGCACAGAAGCCTGGAAAAAATTCATCAATGTGAAAACATCTTTAGAGAAGGCCAATACTTTGGTTGTTT
CTTTGATCTGACCAAAAGTGAAGGATTCCAGTTTTGAACAACACAGTGTCCAAATAATGGTCAAGGATAATGCAGG
AAAAATTAAACCATCCTTCAATATAGTGCCTTTAACTTCCCGTGTGAAACCTGATCCTCCACATATTAACCACT
CTCCTTCCACAATGATGACCTATATGTGCAATGGGAGAATCCACAGAATTTTATTAGCAGATGCCTATTTTATGA
AGTAGAAGTCAATAACAGCCAACTGAGACACATAATGTTTTCTACGTCCAAGAGGCTAAATGTGAGAATCCAGA
ATTTGAGAGAAATGTGGAGAATACATCTTGTTCATGGTCCCTGGTGTCTTCTGATACTTTGAACACAGTCAG
AATAAGAGTCAAAACAAATAAGTTATGCTATGAGGATGACAACTCTGGAGTAATTGGAGCCAAGAAATGAGTAT
AGGTAAGAAGCGCAATTCACACTCTACATAACCATGTTACTCATTGTTCCAGTCATCGTCGAGGTGCAATCAT
AGTACTCCTGCTTTACCTAAAAAGGCTCAAGATTATTATATTCCCTCCAATTCCTGATCCTGGCAAGATTTTTAA
AGAAATGTTTGGAGACCAGAATGATGATACTCTGCACCTGGAAGAAGTACGACATCTATGAGAAGCAAACCAAGGA
GGAAACCGACTCTGTAGTGTCTGATAGAAAACCTGAAGAAAGCCTCTCAGTCATGGAGATAATTTATTTTACCTT
CACTGTGACCTTGAGAAGATTCTTCCCATTTCTCATTGTTATCTGGGAACCTATTAAATGGAACTGAACTAC
TGCACCATTTAAAAACAGGCAGCTCATAAGAGCCACAGGTCTTTATGTTGAGTCGCGCACCGAAAACTAAAAAT
AATGGGCGCTTTGGAGAAGAGTGTGGAGTCATTCTCATTGAATTATAAAAGCCAGCAGGCTTCAAACCTAGGGGAC
AAAGCAAAAAGTGATGATAGTGGTGGAGTTAATCTTATCAAGAGTTGTGACAACTTCTGAGGGATCTATACTTG
CTTTGTGTTCTTTGTGTCAACATGAACAAATTTTATTTGTAGGGGAACCTCATTGAGGGTGCAATGCTAATGTCA
AACTTGAGTCACAAAGAACATGTAGAAAACAAATGGATAAAATCTGATATGTATTGTTTGGGATCCTATTGAAC
CATGTTTGTGGCTATTAAAACTCTTTTAAACAGTCTGGGCTGGGTCCGGTGGCTCACGCCTGTAATCCCAGCAATT
TGGGAGTCCGAGGCGGGCGGATCACTCGAGGTGAGGAGTTCCAGACCAGCCTGACCAAAATGGTGAAACCTCCTC
TCTACTAAACCTACAAAAATTAACCTGGGTGTGGTGGCGCGTGCCTGTAATCCCAGCTACTCGGGAGCTGAGGCA
GGTGAATTGTTGAACCTGGGAGGTGGAGGTTGCAGTGAGCAGAGATCACACCACTGCACTCTAGCCTGGGTGAC
AGAGCAAGACTCTGTCTAAAAAACAAACAAACAAACAAACAAACAAACAAACCTCTTAATATTCTGGAGTCATCA
TTCCCTTCGACAGCATTTTCTCTGCTTTGAAAGCCCCAGAAATCAGTGTTGGCCATGATGACAACTACAGAAAA
ACCAGAGGCAGCTTCTTTGCCAAGACCTTTCAAAGCCATTTTAGGCTGTTAGGGGCAGTGGAGGTAGAATGACTC
CTTGGGTATTAGAGTTTCAACCATGAAGTCTCTAACAATGTATTTTCTTACCTCTGCTACTCAAGTAGCATTTA
CTGTGTCTTTGGTTTGTGCTAGGCCCGGGTGTGAAGCACAGACCCCTTCCAGGGGTTTACAGTCTATTGAGA
CTCCTCAGTTCTTGCCACTTTTTTTTTTAACTCTCCACCAGTCATTTTTTCAGACCTTTTAACTCCTCAATTCCAAC
ACTGATTTCCCTTTTGCATTCTCCCTCCTTCCCTTCTTGTAGCCTTTTGACTTTTCAATTGAAATTAGGATGTA
AATCTGCTCAGGAGACCTGGAGGAGCAGAGGATAATTAGCATCTCAGGTAAAGTGTGAGTAATCTGAGAAACAAT
GACTAATTCTTGCAATTTTGTAACTTCCATGTGAGGGTTTTTCAGCATTGATATTTGTGCATTTTCTAAACAGAG
ATGAGGTGGTATCTTACGTAGAACATTGGTATTGCTTGGAGAAAAAAGAATAGTTGAACCTATTTCTCTTTCT
TTACAAGATGGGTCCAGGATTCCTCTTTTCTCGCCATAAATGATTAATTAAATAGCTTTTGTGTCTTACATTGG
TAGCCAGCCAGCCAAGGCTCTGTTTATGCTTTTGGGGGGCATATATTGGGTTCCATTCTCACCTATCCACACAAC
ATATCCGTATATATCCCCCTTACTCTTACTTCCCCCAAATTTAAAGAAGTATGGGAAATGAGAGGCATTTCCCCC
ACCCCATTTCTCTCCTCACACACAGACTCATATTACTGGTAGGAACCTTGAGAACCTTTATTTCCAAGTTGTTCAA
CATTTACCAATCATATTAATACAATGATGCTATTTGCAATTCCTGCTCCTAGGGGAGGGGAGATAAGAAACCTC
ACTCTCTACAGTTTGGGTACAAGTGGCAACCTGCTTCCATGGCCGTGTAGAAGCATGGTGCCCTGGCTTCTCTG
AGGAAGCTGGGGTTTATGACAATGGCAGATGTAAAGTTATTCTTGAAGTCAGATTGAGGCTGGGAGACAGCCGTA
GTAGATGTTCTACTTTGTTCTGCTGTTCTTAGAAAGAATATTTGGTTTTCTGTATAGGAATGAGATTAATTCC
TTTCCAGGTATTTTATAATTCTGGGAAGCAAACCCATGCCTCCCCCTAGCCATTTTACTGTTATCCTATTTAG
ATGGCCATGAAGAGGATGCTGTGAAATTCCCAACAAACATTGATGCTGACAGTCATGCAGTCTGGGAGTGGGGAA

1006/2777
FIGURE 897B

GTGATCTTTTGTTCCTCCTCTTTTAGCAGTAAAATAGCTGAGGGAAAAGGGAGGGAAAAGGAAGTTATGG
GAATACCTGTGGTGGTTGTGATCCCTAGGTCTTGGGAGCTCTTGGAGGTGTCTGTATCAGTGGATTTCCCATCCC
CTGTGGGAAATTAGTAGGCTCATTACTGTTTTAGGTCTAGCCTATGTGGATTTTTTCCTAACATACCTAAGCAA
ACCCAGTGTGAGGATGGTAATTCTTATTCTTTCGTTTCAGTTAAGTTTTTCCCTTCATCTGGGCACTGAAGGGATA
TGTGAAACAATGTTAACATTTTTGGTAGTCTTCAACCAGGGATTGTTTCTGTTTAACTTCTTATAGGAAAGCTTG
AGTAAAATAAATATTGTCTTTTTGTATGTCAAGCGGGCCGCCACCGCGGTGGAAACTCCAGCTT

1007/2777
FIGURE 898

MEWPARLCGLWALLLCAGGGGGGGGAAPTETQPPVTNLSVSVENLCTVIWTWNPPEGASSNCSLWYFSHF'GDKQD
KKIAPETRRSIEVPLNERICLQVGSQCSTNESEKPSILVEKCISPPEGDPESAVTELQCIWHNLSYMKCSWLPGR
NTSPDTNYTLYYWHRSLLEKIHQCENIFREGQYFGCSFDLTKVKDSSFEQHSVQIMVKDNAGKIKPSFNIVPLTSR
VKPDPPHIKNLSFHNDLYVQWENPQNFISRCLFYEEVENNSQTETHNVFYVQEAKCENPEFERNVENTSCFMVP
GVLPTLNTVRIRVKTNKLCEYEDDKLWSNWSQEMSIGKKRNSTLYITMLLIVPVIVAGAIIVLLLYLKRLKIIIF
PPIPDPGKIFKEMFGDQNDLHWKKYDIYEKQTKETDSVLIENLKKASQ

1008/2777
FIGURE 899

GCTCTACAATTGAATGAGCTCACCATGGATGATGATACCGCTGTGCTCGTCATTGACAACGGCTCTGGCATGTGC
AAGGCCGGCTTTGCGGGCGACGATGCCCCCAGGCTGTCTTCCCTTCTATCGTGGGGCGCCCCAGGCACCAGGGC
ATGATGGAGGGCATGCATCAGAAGGAGTCCTATGTGGGCAAAGAGGCCAGAGCAAGAGAGGCATGCTGACCCTG
AAGTACCCCATGGAGCATGGCATCATCACCAACTGGGACGACATGGAGAAGATCTGGCACCACACCTTCTACAAT
GAGCTGCGTGTGGCTCCTGAGGAGCACCCCATCCTGCTGACTGAGGCCCCCTGAACCCCAAGGCCAACCGTGAG
AAGATGACCCAGATCATGTTTGAGACCTTCAACACCCAGCCATGTACGTGGCCATCCAGGCCGTGCTGTCCCTA
TACACCTCTGGCCGTACTACTGGCATCGTGATGGACTCTGGTGATGGGTTACCCACACTGTGCCATCTATGAG
GGGAATGCCCTCCCCATGCCACCCTGCGCCTAGACCTGGCTGGGCGGGAACTGACTGACTACCTCATGAAGATC
CTCACCGAGCGTGGCTATAGGTTACCACCACGGCCGAGCAGGAAATTGTGCGTGACATCAAAGAGAAGCTGTGC
TATGTTGCCCTGGACTCCGAGCAGGAGATGGCCATGGCAGCCTCCAGCTCCTCCGTAGAGAAGAGCTACGAGCTG
CCCGATGGTCAGGTCATCACCATCGGCAACGAGCGGTTCCGCTGCCCCGAGGCGCTCTTCCAGCCTTGCTTCCTG
GGCATGGAATCCTGTGGCATCCACAAAACCTACCTTCAACTCCATAGTGAAGTCTGATGTGGACATCCGCAAAGAC
CTGTACACCAACACAGTGCTGTCTGGCGGCACCACCATGTACCCTGGCATCGCCACAGGATGCAGAAGGAGATC
ACTGCCCTGGCGCCTAGCATTATGAAGATCAAGATCATTGCTCCTCCCAAGCGCAAGTACTCCGTGTGGGTGGT
GGCTCCATCCTGGCCTCGCTGTCCACCTTCCAGCAGATGTGGATCAGCAAGCAGGAGTATGATGAGTCAGGCCCC
TCCATTGTCCACCGCAAATGCTTCTAGGTGGACTCTGACTTAGTTGCGTTACACCCTTTCTTGACAAAACCAAAC
TTCTCAGAAAACAACATGAGATTGGCGTGGCTTTATTTGTTTTCTTGTTTTCATTTTTTGTTTTGTTTTTATTGG
CTTGACTCAGGATTTGAAAACCGGAACGGCGAAGGTGATAGTAGTCGGTTGGAGCGAGCTTCCCCCAAAGTTCTA
CAATGTGGCCAAGGACTTTGATTGTACATTGTTCTTCTTTCAATAGTCAT

1009/2777
FIGURE 900

MDDDTAVLVIDNGSGMCKAGFAGDDAPQAVFPSIVGRPRHQGMMEGMHQKESYVGKEAQSKRGMLTLKYPMEHGI
ITNWDDMEKIWHHTFYNELRVAPEEHPILLTEAPLNPKANREKMTQIMFETFNTPAMYVAIQAVLSLYTSGRTTG
IVMDSGDGFTHTVPIYEGNALPHATLRDLAGRELTDYLMKILTERGYRFTTTAEQEIVRDIKEKLCYVALDSEQ
EMAMAASSSSVEKSYELPDGQVITIGNERFRCPALFQPCFLGMESCGIHKTTFNSIVKSDVDIRKDLYTNTVLS
GGTTMYPGIAHRMQKEITALAPSIMKIKI IAPPKRKYSVWVGGSILASLSTFQQMWISKQEYDESGPSIVHRKCF

1010/2777
FIGURE 901

GTTACGCTGACGTCCCAAATCTTGAAGTTTTGTCCCCATTTGCTTTCTGCTTCTGGGGACAAAACCTTCCAAGA
TTTGGGACGTCAGCGTGAACCTCCGTGGTCAGCACATTTCCCATGGGCTCCACGGTTCTGGACCAGCAGCTGGGCT
GCTTATGGCAGAAGGACCACCTGCTCAGTGTCTCCCTGTCCGGGTACATCAACTATCTGGACAGAAACAACCCCA
GCAAGCCCCTGCACGTCATCAAGGGTCACAGTAAATCGATCCAGTGTCTGGGAAGCTGAGGATCTGGGATACCAC
GCAGAAGGAGCACCTGTTGAAGTATGAGTACCAGCCTTTTCGCTGGGAAGATCAAAGACATTGCTTGGACTGAAGA
CAGTAAGAGGATCGCCCGTGGTCGGGGAAGGAAGGGAGAAGTTTGGAGCAGTCTTCCTCTGGGATAGTGGCTCTT
CTGTGGGCGAGATTACAGGACACAACAAAGTCATCAACAGCGTGGCATCAAGCAGAGCCGCCATACCGCTGGCAC
GGGAAGCGATGATAACTGCGCGCATTCTTTTGAGGGACCCCCATTCAAGTTCAAGTTCACAGTTGGCGCCACAGCC
GTTTGTCAACTGTGTGCGATTCTCTCAAGAGCAAAGGTTAATTTAAGGACAAAGATGAAGTCCTGTAAACTAATC
TGTCATTGTTTTACCTTCCTTTCTTTTTCAGTGCGGAATTAAGTAAGTTTAAAGCACCTGATTGGGAGTGTTT
TGCGTGTTTCGGAATCACTTGTAATGTTGGCTGAGACAATCCTTCCTTGCACTTTGAAACACTTTGAGCCTTTAAG
AGATAGCCTGAGAATAATAAATCTTTTCTTTTAAAAAAAAAAAAAAAAATTTAAAAAAAAAAAAAAAAAAAAAAAAA

1011/2777
FIGURE 902

MSTSLSLGRSKTLLGLKTVRGSPVVGE GREKFGAVFLWDSGSSVGEITGHNKVINŞVASSRAAIPLAREAMITAR
IL

1012/2777
FIGURE 903

CAAAATCTCAACCATGATCTTTGAGATGGCAAAGGTTTTAAATACGTTTTGGAAATATACTCATTGGTATATTTCT
TTTGAGAAGGCTGAAATGTAGCTGGGGACAGCAGGTTGATCACAAGGGACGATGATATGAGGTAAGCACACAAGA
GCTATGGACAAGACAAGGTCTAAAGGATTTTGAATACAAAGCAGAAATATTTTCGACCTTCTCATTCTGGGGTGG
GAGTGGGGAGTGTTTCATTAAGTACATATGACAAGAGGGAGTGTTGGGGAGAAGGTGAAACAGTAGACTACATTTAT
GGATTAAGTAGGGAATGTGAACAAAGATGTTAAAGTCATGGCGATCCGGTAGACAGATTACACAGAAGGGGACCG
AAGATGAAGTGGACAAATACTCTGAGGCTCTCAAAGATGCCAGGAGAAGCTGGAGCTGGCAGAGAAAAAGGCCA
CCGATGCTGAAGCCGACGTAGCTTCTCTGAACAGACGCATCCAGCTGGTTGAGGAAGAGTTGGATCGTGCCCAGG
AGCGTCTGGCAACAGCTTTGCAGAAGCTGGAGGAAGCTGAGAAGGCAGCAGATGAGAGTGAGAGAGGCATGAAAG
TCATTGAGAGTCGAGCCCAAAAAGATGAAGAAAAAATGGAAATTCAGGAGATCCAAGTAAAGAGGCCAAGCACA
TTGCTGAAGATGCCGACCGCAAATATGAAGAGGTGGCCCGTAAGCTGGTCATCATTGAGAGCGACCTGGAACGTG
CAGAGGAGCGGGCTGAGCTCTCAGAAGGCCAAGTCCGACAGCTGGAAGAACAATTAAGAATAATGGATCAGACCT
TGAAAGCATTAAATGGCTGCAGAGGATAAGTACTCGCAGAAGGAAGACAGATATGAGGAAGAGATCAAGGTCCCTT
CCGACAAGCTGAAGGAGGCTGAGACTCGGGCTGAGTTGCGGAGAGGTCAGTAACTAAATTGGAGAAAAGCATTG
ATGACTTAGAAGAGAAAGTGCTCATGCCAAAGAAGAAAACCTTAGTATGCATCAGATGCTGGATCAGACTTTACT
GGAGTTAAACAACATGTGAAAACCTCCTTAGCTGCGACCACATTCTTTCATTTTGTTTTGTTTTGTTTTGTTTT
AAACACCTGCTTACCCCTTAAATGCAATTTATTTACTTTTACCACTGTCACAGAAACATCCACAAGATAACCAGCT
AGGTCAGGGGGTGGGGAAAACACATACAAAAGCAAGCCCATGTCAGGGCGATCCTGGTTCAAATGTGCCATTC
CCGGTTGATGCTGCCACACTTTGTAGAGAGTTAGCAACACAGTGTGCTTAGTCAGTGTAGGAATCCTCACTAA
AGCAGAAGAAGTTCCATTCCTTTCTGATTGGCACACGTGCAGCTCATGACAATCTGTAGGATAACAATCAGTGTG
GATTTCCACTCTTTTCAGTCCTTCATGTTAAAGATTTAGACACCACATACAACCTGGTAAAGGACGTTTTCTTGAG
AGTTTTAACTATATGTAAACATTGTATAATGATATGGAATAAAATGCACATTTTAGGACATTTTCTAAA

1013/2777
FIGURE 904

MLKSWRSGRQITQKGTEDELDKYSEALKDAQEKLELAEKKATDAEADVASLNRRIQLVEEELDRAQERLATALQK
LEEAEKAADESERGMKVIESRAQKDEEKMEIQEIQLKEAKHIAEDADRKYEEVARKLVIIESDLERAEEERAELSE
GQVRQLEEQLRIMDQTLKALMAAEDKYSQKEDRYEEEIKVLSDKLKEAETRAEFAERSVTKLEKSIDDLEEKVLM
PKKKTLCIRCWIRLYWS

1014/2777
FIGURE 905

TGCGGCCGCACCTGCAGGCGCAGAGTAGGTATGGAAGATCCCTCGAGATCCATTGTGCTCTAAAGCCGCCGGGGG
TCCGTGTCCTGTCTCGGTTGGCCGGACCCGGGCCCCGAGCCCGAGCAGTAGCCGGCGCCATGTCGGTGGTGGGCAT
AGACCTGGGCTTCCAGAGCTGCTACGTCGCTGTGGCCCGCGCCGGCGGCATCGAGACTATCGCTAATGAGTATAG
CGACCGCTGCACGCCGGCTTGCAATTTCTTTTGGTCCTAAGAATCGTTCAATTGGAGCAGCAGCTAAAAGCCAGGT
AATTTCTAATGCAAAGAACACAGTCCAAGGATTTAAAAGATTCCATGGCCGAGCATTCTCTGATCCATTTGTGGA
GGCAGAAAAATCTAACCTTGCATATGATATTGTGCAGTGGCCTACAGGATTAACAGGTATAAAGGTGACATATAT
GGAGGAAGAGCGAAATTTTACCAGTGAAGTGAAGTGGCCTGCTTTTGTCCAAACTGAAGGAGACAGCCGAAAG
TGTTCTTAAGAAGCCTGTAGTTGACTGTGTTGTTTCGGTTCCCTTGTTTCTATACTGATGCAGAAAGACGATCAGT
GATGGATGCAACACAGATTGCTGGTCTTAATTGCTTGCGATTAATGAATGAAACCACTGCAGTTGCTCTTGATA
TGGAATCTATAAGCAGGATCTTCCTCGCTTAGAAGAGAAACCAAGAAATGTAGTTTTTGTAGACATGGGCCACTC
TGCTTATCAAGTTTCTGTATGTGCATTTAATAGAGGAAAACCTGAAAGTTCTGGCCACTGCATTTGACACGACATT
GGGAGGTAGAAAATTTGATGAAGTGTAGTAAATCACTTCTGTGAAGAATTTGGGAAGAAATACAAGCTAGACAT
TAAGTCCAAAATCCGTGCATTATTACGACTCTCTCAGGAGTGTGAGAACTCAAGAAATTGATGAGTGCAAATGC
TTCAGATCTCCCTTTGAGCATTGAATGTTTTATGAATGATGTTGATGTATCTGGAACCTATGAATAGAGGCAAATT
TCTGGAGATGTGCAATGATCTCTTAGCTAGAGTGGAGCCACCCTTCGTAGTGTTTTGGAACAAACCAAGTTAAA
GAAAGAAGATATTTATGCAGTGGAGATAGTTGGTGGTGCTACACGAATCCCTGCGGTAAAAGAGAAGATCAGCAA
ATTTTTCGGTAAAGAACTTAGTACAACATTAAATGCTGATGAAGCTGTCACTCGAGGCTGTGCATTGCAGTGTGC
CATCTTATCGCCTGCTTTCAAAGTCAGAGAATTTCTATCACTGATGTAGTACCATATCCAATATCTCTGAGATG
GAATTCCTCAGCTGAAGAAGGGTCAAGTGAAGTCTTTTCCAAAATCATGCTGCTCCTTTCTCTAAAGT
TCTTACATTTTATAGAAAGGAACCTTTCACTCTTGAGGCCTACTACAGCTCTCCTCAGGATTTGCCCTATCCAGA
TCCTGCTATAGCTCAGTTTTAGTTTCAAGTCACTCCTCAGTCTGATGGCTCCAGTTCAAAGTGAAAGTCAA
AGTTCGAGTAAATGTCCATGGCATTTCAGTGTGTCCAGTGCATCTTTAGTGGAGGTTTACAAGTCTGAGGAAAA
TGAGGAGCCAATGGAAACAGATCAGAAATGCAAAGGAGGAAGAGAAGATGCAAGTGGACCAGGAGGAACCACATGT
TGAAGAGCAACAGCAGCAGACACCAGCAGAAAATAAGGCAGAGTCTGAAGAAATGGAGACCTCTCAAGCTGGATC
CAAGGATAAAAAGATGGACCAACCACCCCAATGCCAAGAAGGCAAAGTGAAGACCAGTACTGTGGACCTGCCAA
TCGAGAATCAGCTATATGGCAGATAGACAGAGAGATGCTCAACTTGTACATTGAAAATGAGGGTAAGATGATCAT
GCAGGATAAACTGGAGAAGGAGCGGAATGATGCTAAGAACGCAGTGGAGG

1015/2777
FIGURE 906

MSVVGIDLGFGSCYVAVARAGGIETIANEYSDRCTPACISFGPKNRSIGAAKSQVISNAKNTVQGFKRFHGRAF
SDPFVEAEKSNLAYDIVQWPTGLTGIVTYMEEERNFTTEQVTAMLLSKLKETAESVLKKPVVDCVVSVP CFYTD
AERRSVMDATQIAGLNCLRLMNETTAVALAYGIYKQDLPRLEEKPRNVVFDVMDGHSAYQVSVCAFNRGKLKVLAT
AFDTTLGGRKFDEVLVNHFC EEF GK KY KLDIKSKIRALLRLS QECEKLKKLMSANASDLPLSIECFMNDVDVSGT
MNRGKFLEMCNDLLARVEPPLRSVLEQTKLKKEDIYAVEIVGGATRIPAVKEKISKFFGKELSTTLNADEAVTRG
CALQCAILSPAFAKVRFSITDVVPYPISLRWNSPAEEGSSDCEVFSKNHAAPFSKVLTFYRKEPFTLEAYYSSPQ
DLPYPDPAIAQFSVQKVTPQSDGSSSKVKVKVRVNVHGIFSVSSASLVEVHKSEENEPMETDQNAKEEEKMQVD
QEEPHVEEQQQQTPAENKAESEEMETSQAGSKDKKMDQPPQCQEGKSEDQYCGPANRESAIWQIDREMLNLYIEN
EGKMIMQDKLEKERNDAKNAVEEYVYEMRDKLSGEYEKVFSEDDRNSFTLKLEDTENWLYEDGEDQPKQVYVDKL
AELKNLGQPIKIRFQSESEERP NYLKN

1016/2777
FIGURE 907

GGGCTGCCGTGTGACGCGCGGCGCGGTCTGGTCCTGCCTGTAACGGCGGGCGGGCTGCTGCTCCAGACACCTGCGG
CGGCGGGCGGCGACCCCGCGGCGGGCGCGGAGATGTGGCCCCCTGGTAGCGGCGCTGTTGCTGGGCTCGGCGTGCTG
CGGATCAGCTCAGCTACTATTTAATAAAACAAAATCTGTAGAATTCACGTTTTGTAATGACACTGTCGTCATTCC
ATGCTTTGTTACTAATATGGAGGCACAAAACACTACTGAAGTATACGTAAAGTGGAATTTAAAGGAAGAGATAT
TTACACCTTTGATGGAGCTCTAAACAAGTCCACTGTCCCCACTGACTTTAGTAGTGCAAAAATTGAAGTCTCACA
ATTACTAAAAGGAGATGCCTCTTTGAAGATGGATAAGAGTGATGCTGTCTCACACACAGGAACTACACTTGTGA
AGTAACAGAATTAACCAGAGAAGGTGAAACGATCATCGAGCTAAAATATCGTGTTGTTTCATGGTTTTCTCCAAA
TGAAAATATTCTTATTGTTATTTTCCCAATTTTTGCTATACTCCTGTTCTGGGGACAGTTTGGTATTAAACACT
TAAATATAGATCCGGTGGTATGGATGAGAAAAACAATTGCTTTACTTGTGCTGGACTAGTGATCACTGTCATTGT
CATTGTTGGAGCCATTCTTTTCGTCCCAGGTGAATATTCATTAAAGAATGCTACTGGCCTTGGTTTTAATTGTGAC
TTCTACAGGGATATTAATATTACTTCACTACTATGTGTTTAGTACAGCGATTGGATTAACCTCCTTCGTCATTGC
CATATTGGTTATTTCAGGTGATAGCCTATATCCTCGCTGTGGTTGGACTGAGTCTCTGTATTGCGGCGTGATACC
AATGCATGGCCCTCTTCTGATTTTCAGGTTTGAGTATCTTAGCTCTAGCACAACTTGGACTAGTTTATATGAA
ATTTGTGGCTTCCAATCAGAAGACTATACAACCTCCTAGGAAAGCTGTAGAGGAACCCCTTAATGCATTCAAAGA
ATCAAAGGAATGATGAATGATGAATAACTGAAGTGAAGTGATGGACTCCGATTTGGAGAGTAGTAAGACGTGAA
AGGAATACACTTCTGTTTAAGCACCATGGCCTTGATGATTCACCTGTTGGGGAGAAGAAACAAGAAAAGTAACCTGG
TTGTCACCTATGAGACCCTTACGTGATTGTTAGTTAAGTTTTTATTCAAAGCAGCTGTAATTTAGTTAATAAAAT
AATTATGATC

1017/2777
FIGURE 908

MWPLVAALLLGSACCGSAQLLFNKTKSVEFTFCNDTVVIPCFVTNMEAQNTTEVYVKWKFKGRDIYTFDGALNKS
TVPTDFSSAKIEVSQLLKGDASLKMDKSDAVSHTGNYTCEVTELTREGETIIEELKYRVVSWFSPNENILIVIFPI
FAILLFWGQFGIKTLKYRSGGMEKTIALLVAGLVITVIVIVGAILFVPGEYSLKNATGLGLIVTSTGILILLHY
YVFSTAIGLTSFVIAILVIQVIAYILAVVGLSLCIAACIPMHGPLLISGLSILALAQLLGLVYMKFVASNQKTIQ
PPRKAVEEPLNAFKESKGMMNDE

1018/2777
FIGURE 909

CCTCCTACACCTTCAGCACCCCTGCCCAGCTACTCCTGCTGGACCAAAGGGAAGGGTGTTTGTTAGCCCTCTTGCA
AAGAAGTTGGCAGTAGAGAAAGGGATTGATCTTACACAAGTAAAAGGGACAGGACCAGATGGTAGAATCACCAAG
AAGGATATCGACTCTTTTGTGCCTAGTAAAGTTGCTCCTGCTCCGGCAGCTGTTGTGCCTCCACAGGTCCTGGA
ATGGCACCAGTTCCTACAGGTGTCTTCACAGATATCCCAATCAGCAACATTCGTCGGGTTATTGCACAGCGATTA
ATGCAATCAAAGCAAACCATACTCATTATTACCTTTCTATCGATGTAAATATGGGAGAAGTTTTGTTGGTACGG
AAAGAACTTAATAAGATATTAGAAGGGAGAAGCAAAATTTCTGTCAATGACTTCATCATAAAACGTTTCAGCTTTG
GCATGTTTAAAAGTTCCCGAAGCAAATTCTTCTTGGATGGACACAGTTATAAGACAAAATCATGTTGTTGATGTC
AGTGTGCGGTCAGTACTCCTGCAGGACTCATCACACCTATTGTGTTTAAATGCACATATAAAAGGAGTGGAACC
ATTGCTAATGATGTTGTTTCTTTAGCAACCAAAGCAAGAGAGGGTAAACTACAGCCACAT

1019/2777
FIGURE 910

TGGC¹AAAATCCTGGAGCCAGAAGAAAGGACAGCAGCATTGATCAATCTTACAGCTAAC**ATG**TTGTACCTGGAAAA
CAATGCCCAGACTCAATTTAGTGAGCCACAGTACACGAACCTGGGGCTCCTGAACAGCATGGACCAGCAGATTTCG
GAACGGCTCCTCGTCCACCAGTCCCTATAACACAGACCACGCGCAGAACAGCGTCACGGCGCCCTCGCCCTACGC
ACAGCCCAGCCCCACCTTCGATGCTCTCTCTCCATCACCCGCCATCCCCCTCAACACCGACTACCCAGGCCCGCA
CAGTTCCGACGTGTCCTTCAGCAGTCGAGCACCGCCAAGTCGGCCACCTGGACGTATTCCACTGAAGTGAAGAA
ACTCTACTGCCAAATTGCAAAGACATGCCCCATCCAGATCAAGGTGATGACCCACCTCCTCAGGGAGCTGTTAT
CCGCGCCATGCCTGTCTACAAAAAGCTGAGCACGTCACGGAGGTGGTGAAGCGGTGCCCCAACCATGAGCTGAG
CCGTGAGTTCAACGAGGGACAGATTGCCCTCCTAGTCATTTGATTTCGAGTAGAGGGGAACAGCCATGCCAGTA
TGTAAGAATCCCATCACAGGAAGACAGAGTGTGCTGGTACCTTATGAGCCACCCAGGTTGGCACTGAATTCAC
GACAGTCTTGTACAATTTTCATGTGTAAACAGCAGTTGTGTTGGAGGGATGAACCGCCGTCCAATTTTAATCATTGT
TACTCTGGAAACCAGAGATGGGCAAGTCCTGGGCCGACGCTGCTTTGAGGCCCGGATCTGTGCTTGCCAGGAAG
AGACAGGAAGGCGGATGAAGATAGCATCAGAAAGCAGCAAGTTTCGGACAGTACAAAGAACGGTGATGGTACGAA
GCGCCCGTTTTCGTAGAACACACATGGTATCCAGATGACATCCATCAAGAAACGAAGATCCCAGATGATGAAGT
GTTATACTTACCAGTGAGGGGCCGTGAGACTTATGAAATGCTGTTGAAGATCAAAGAGTCCCTGGAAGTCAATGCA
GTACCTTCCTCAGCACACAATTGAAACGTACAGGCAACAGCAACAGCAGCAGCACCAGCACTTACTTCAGAAACA
GACCTCAATACAGTCTCCATCTTCATATGGTAACAGCTCCCCACCTCTGAACAAAATGAACAGCATGAACAAGCT
GCCTTCTGTGAGCCAGCTTATCAACCCTCAGCAGCGCAACGCCCTCACTCCTACAACCATTCTGATGGCATGGG
AGCCAACATTCCCATGATGGGCACCCACATGCCAATGGCTGGAGACATGAATGGACTCAGCCCCACCCAGGCACT
CCCTCCCCCACTCTCCATGCCATCCACCTCCCACTGCACACCCCCACCTCCGTATCCCACAGATTGCAGCATTGT
CAGTTTCTTAGCGAGGTTGGGCTGTTTCATCATGTCTGGACTATTTACGACCCAGGGGCTGACCACCATCTATCA
GATTGAGCATTACTCCATGGATGATCTGGCAAGTCTGAAAATCCCTGAGCAATTTTCGACATGCGATCTGGAAGGG
CATCCTGGACCACCGGCAGCTCCACGAATTCTCCTCCCCCTCTCATCTCCTGCGGACCCCAAGCAGTGCCTCTAC
AGTCAGTGTGGGCTCCAGTGAGACCCGGGGTGAGCGTGTTATTGATGCTGTGCGATTACCCCTCCGCCAGACCAT
CTCTTTCCCACCCCGAGATGAGTGGAATGACTTCAACTTTGACATGGATGCTCGCCGCAATAAGCAACAGCGCAT
CAAAGAGGAGGGGGAG**TG**AGCCTCACCATGTGAGCTCTTCCTATCCCTCTCCTAACTGCCAGCCCCCTAAAAGCA
CTCCTGCTTAATCTTCAAAGCCTTCTCCCTAGCTCCTCCCCCTCCTCTTGCTGATTTCTTAGGGGAAGGAGAAG
TAAGAGGCTACCTCTTACCTAACATCTGACCTGGCATCTAATTCTGATTCTGGCTTTAAGCCTTCAAACTATAG
CTTGCAAGACTGTAGCTGCCATGGCTAGGTAGAAGTGAGCAAAAAAGAGTTGGGTGTCTCCTTAAGCTGCAGAGA
TTTCTCATTGACTTTTATAAAGCATGTTACCCCTTATAGTCTAAGACTATATATATAAATGTATAAATATACAGT
ATAGATTTTTTGGGTGGGGGGCATTGAGTATTGTTTAAATGTAATTTAAATGAAAGAAAATTGAGTTGCACCTTAT
TGACCATTTTTTAATTTACTTGTTTTGGATGGCTTGCTCTATACTCCTTCCCTTAAGGGGTATCATGTATGGTGAT
AGGTATCTAGAGCTTAATGCTACATGTGAGTGCGATGATGTACAGATTCTTTCAGTTCTTTGGATTCTAAATACA
TGCCACATCAAACCTTTGAGTAGATCCATTTCCATTGCTTATTATGTAGGTAAGACTGTAGATATGTATTCTTTT
CTCAGTGTGGTATATTTTATATTACTGACATTTCTTCTAGTGATGATGGTTCACGTTGGGGTGATTTAATCCAG
TTATAAGAAGAAGTTTCATGTCCAACGGTCCTCTTATGTTTGGTTGGGAATGAGGAAAATTCTTAAAGGCC
ATAGCAGCCAGTTCAAAAACACCCGACGTCATGATTTGAGCATATCAGTAACCCCTTAAATTTAATACCCAGA
TACCTTATCTTACAATGTTGATTGGGAAAACATTTGCTGCCATTACAGAGGTATTAAACTAAATTTCACTACT
AGATTGACTAACTCAAATACACATTTGCTACTGTTGTAAGAATTC

1020/2777
FIGURE 911

MLYLENNAQTQFSEPQYTNLGLLNSMDQQIRNGSSSTSPYNTDHAQNSVTAPSPYAQPSPTFDALSPSPAIPSNT
DYPGPHSSDVSFQQSSTAKSATWTYSTELKKLYCQIAKTCPIQIKVMTPPPQGAVIRAMPVYKKAHEHVTEVVKRC
PNHELRSREFNEGQIAPPSHLIRVEGNSHAQYVEDPITGRQSVLVPYEPPQVGTEFTTVLYNFMCNSSCVGGMNRR
PILIIVTLETRDGQVLGRRCFEARICACPGRDRKADEDSIRKQQVSDSTKNGDGTKRPFRRQNTHTGIQMTSIIKKRR
SPDDELLYLPVRGRETYEMLLKIKESLELMQYLPQHTIETYRQQQQQQHLLQKQTSIQSPSSYGNSSPPLNKM
NSMNKLPVSQQLINPQQRNALTPTTIPDGMGANIPMMGTHMPMAGDMNGLSPTQALPPPLSMPSTSHCTPPPPYP
TDCSIVSFLARLGCSSCLDYFTTQGLTTIYQIEHYSMDDLASLKIPEQFRHAIWKGILDHRQLHEFSSPSHLLRT
PSSASTVSVGSSETRGERVIDAVRFTLRQTISFPPRDEWDFNFDMDARRNKQQRKEEGE

1021/2777
FIGURE 912

CTATAAATTAAGGATCCCAGCTACTTAATTGACTTATGCTTCCTAGTTCGTTGCCAGCCACCACCGTCTCTCCA
AAAACCCGAGGTCTCGCTAAAATCATCATGATTCACTTGGCGCCGTCAGCACTCGACTTGGGTTTGATCTTTTC
AAAGAGCTGAAGAAAACAAATGATGGCAACATCTTCTTTTCCCCTGTGGGCATCTTGACTGCAATTGGCATGGTC
CTCCTGGGGACCCGAGGAGCCACCGCTTCCCAGTTGGAGGAGGTGTTTCACTCTGAAAAAGAGACGAAGAGCTCA
AGAATAAAGGCTGAAGAAAAGAGGTGATTGAGAACACAGAAGCAGTACATCAACAATTCCAAAAGTTTTTGACT
GAAATAAGCAAACCTACTAATGATTATGAACTGAACATAACCAACAGGCTGTTTGGAGAAAAACATACCTCTTC
CTTCAAAAATACTTAGATTATGTTGAAAAATATTATCATGCATCTCTGGAACCTGTTGATTTTGTAAATGCAGCC
GATGAAAGTCGAAAGAAGATTAATTCCTGGGTTGAAAACAAAACAAATGAAAAATCAAGGACTTGTTCAGAT
GGCTCTATTAGTAGCTCTACCAAGCTGGTGCTGGTGAACATGGTTTATTTTAAAGGGCAATGGGACAGGGAGTTT
AAGAAAGAAAATACTAAGGAAGAGAAATTTTGGATGAATAAGAGCACAAGTAAATCTGTACAGATGATGACACAG
AGCCATTCCTTTAGCTTCACTTTCTGAGGACTTGCAGGCCAAAATCTAGGGATTCCATATAAAAAACAACGAC
CTAAGCATGTTTGTGCTTCTGCCCAACGACATCGATGGCCTGGAGAAGATAATAGATAAAATAAGTCCTGAGAAA
TTGGTAGAGTGGACTAGTCCAGGGCATATGGAAGAAAGAAAGGTGAATCTGCACCTTGGCCCGGTTTGAGGTGGAG
GACGGTTACGATCTAGAGGCGGTCTGGCTGCCATGGGGATGGGCGATGCCTTCAGTGAGCACAAAGCCGACTAC
TCGGGAATGTCGTCAGGCTCCGGGTTGTACGCCAGAAGTTCCTGCACAGTTCCTTTGTGGCAGTAACTGAGGAA
GGCACCAGGCTGCAGCTGCCACCGGCATAGGCTTTACTGTACATCCGCCCCAGGTTCATGAAAATGTTCACTGC
AATCATCCCTTCTGTCTTCTCATCAGGCACAATGAATCCAACAGCATCCTCTTCTTCGGCAGATTTTCTTCTCCT
TAAGATGATCGTTGCCATGGCATTGCTGCTTTTAGCAAAAAACAACCTACCAGTGTTACTCATATGATTATGAAAA
TCGTCCATTCTTTTAAATGTTGTCTCACTGCATTCCAGTCTTGGCCATCAAATCAATGATTTAATGACTCCAA
TAATGTGTGTGTTTATAACCATCCTCGAAAGTGAAATGTCCTTTTTTTTTGTGCCATGCGTAAGGTGAGTCAAACC
AAACCTCATTGATAATCTCCCCTTTGGTTTCTTTGAAAGTAAATGGTATCTTGTAGTTTTGTGCACACGAAAG
GAGAGAAAGTTTCTCCAGTAAAGAGTACGAACTAGTAATTTTGGGGGGTCTCTCTAATTCTGGTATTTTGACATG
TTATAATACGCAAGTAAATAAAACAATAGTTTACTCAGCTCATGTTACTATTCCCCAACAGATATTGTGGCAAA
TCACACATAGGAAAGAGGATTTGGGAATACAGTAGCAAAACATAAATTAAACTCAAATGCCCAGGACAAAATAA
AACAAATATACCAGATGGAGAGGATGCCCCGATTTTCATCTTCCATTCTAACATTATCCATTGTTAGATGCATAAG
CATTTTGTATATTGTGTAATAAATGTGGTATTTGAGAAGATAAATGATGTAGTTGATCAGTAATCCTCCTCTATCA
CCTTTTTAGACTTTGTAAGGTAAATATTTGGACTAACTTTTAGAAAAGTTTCCCTTTTTTTCTCCATTACATTT
TTCTGGTTTTTTTTTTTTTTTTTTTGTAGTGAGGTACGAGTATTACCAAATGATATTTTCTGAAGATGCTTTTTGGAA
AGCTCTGAATCTATACCTAATGCTCTTAATTATTGGCTTGTTTCATTTTTTCTCCTCAGTTTTTAACAAGATCAC
ATAACTGGCTTATTTTTAACAGCTTTGTCAAACATAATTTACATGCCGTAATAATGTACACACTGTAATTTTATA
ATTCATTGACTTTTAGTAAATTTTCTAGCGTTATGCATCGCCACAATCCAGTTTTAGAATATTTCCATGACCCTA
AGAAGTTTCTCATGTCTATTAATATTCCCAATCCTAGGCACCACCTGAGTTGTTTTCTGTCTTTATAAGTTTTTC
TTTCTACATCTTATATAAATGGAATCATAATACATGTAGTATTTTGTGTCTGGCGTCTTGCACCTTAGCATGGTGT
TCTTGAGGTTTCATCTGTTGTAGTATGTATTGATACTTAGGATTTTTTTATTGCCGAATACTATTCCATTGCATGG
AAAAGACCTATTTTATTTCTAGGTTCCACAGTTGAGGGACATTTGGATTGTTCCCACTTCTTGGGCTGTTAGGAA
TAATGTTGCTCTGAACATGTAAATAAAGATCTTTGTGTTACATATGTTTTTCATTTTCTGTTGGGGAGATTCCC
TAGGCTAGAAATTGCTGGGCCATATGAAAAATCAATAGTTAGCTTTGTAAGAAACAGTCAAACCTGTTTTCCCAAC
GTGACATTTTATATTTCCACCAGGAATGTTTAAACTAGTGTCTTCAAATCCTCACCACATCCAGGATTGTGTC
TTTATGATTATAGCCATTTTTGTAGGTACAAAGTGGCATCTCATGGTGGTTTTAATTTGCATTTCCATAATATCT
AATTAGGTTGAGCTTTTTTTATGTGCTTATTGGCCATTTGTTTGACTTTGTTTGGTGAAATGTATACAAATCATT
TGCTCATTTTTTAATTTGGGTTGTCTGTCTTGTCTTCTCATTTTATTGAGTTAAATGAGTTCCTAATAATCTCTGG
CTTACAAGTCCTTAATTTATCAAATATATGATACGTGGACATTTCTCATAAAAAAAAAAAAAAAAAAAAA

1022/2777
FIGURE 913

MDSLGA VSTR LGFDL FKELKKTNDGNIFFSPVGILTAIGMVLLGTRGATASQLEEVFHSEKETKSSRIKAEKEV
IENTEAVHQFQKFLTEISKLTNDYELNITNRLFGEKTYLFLQKYLDYVEKYYHASLEPVDFVNAADESRRKINS
WVESKTNEKIKDLFPDGSISSSTKLVLVNMVYFKGQWDREFKKENTKEEFWMNKSTSKSVQMMTQSHSFSFTFL
EDLQAKILGIPYKNNDL SMFVLLPNDIDGLEKIIDKISPEKLVEWTSPGHMEERKVNHLHLPFEVEDGYDLEAVL
AAMGMGDAFSEHKADYSGMSSGSLYAQKFLHSSFVAVTEEGTEAAAATGIGFTVTSAPGHENVHCNHPFLFFIR
HNESNSILFFGRFSSP

1023/2777
FIGURE 914

GGGAGGAGAGAAAAGCCATGGCCGACAAGGTCCTGAAGGAGAAGAGAAAAGCTGTTTATCCGTTCCATGGGTGAAG
GTACAATAAATGGCTTACTGGATGAATTATTACAGACAAGGGTGCTGAACAAGGAAGAGATGGAGAAAAGTAAAC
GTGAAAATGCTACAGTTATGGATAAGACCCGAGCTTTGATTGACTCCGTTATTCCGAAAGGGGCACAGGCATGCC
AAATTTGCATCACATACATTTGTGAAGAAGACAGTTACCTGGCAGGGACGCTGGGACTCTCAGCAGATCAAACAT
CTGGAAATTACCTTAATATGCAAGACTCTCAAGGAGTACTTTCTTCTTTCCAGCTCCTCAGGCAGTGCAGGACA
ACCCAGCTATGCCCACATCCTCAGGCTCAGAAGGGAATGTCAAGCTTTGCTCCCTAGAAGAAGCTCAAAGGATAT
GGAAACAAAAGTCGGCAGAGATTTATCCAATAATGGACAAGTCAAGCCGCACACGTCTTGCTCTCATTATCTGCA
ATGAAGAATTTGACAGTATTCCTAGAAGAAGTGGAGCTGAGGTTGACATCACAGGCATGACAAATGCTGCTACAAA
ATCTGGGGTACAGCGTAGATGTGAAAAAAATCTCACTGCTTCGGACATGACTACAGAGCTGGAGGCATTTGCAC
ACCGCCAGAGCACAAAGACCTCTGACAGCACGTTCTGGTGTTTCATGTCATGGTATTCGGGAAGGCATTTGTG
GGAAGAAACACTCTGAGCAAGTCCCAGATATACTACAACCTCAATGCAATCTTTAACATGTTGAATACCAAGAAGT
GCCCAAGTTTGAAGGACAAACCGAAGGTGATCATCATCCAGGCCTGCCGTGGTGACAGCCCTGGTGTGGTGTGGT
TTAAAGATTCACTAGGAGTTTCTGGAAACCTATCTTTACCAACTACAGAAGAGTTTGAGGATGATGCTATTAAGA
AAGCCACATAGAGAAGGATTTTATCGCTTTCTGCTCTTCCACACCAGATAATGTTTCTTGAGACATCCACAA
TGGGCTCTGTTTTATTGGAAGACTCATTGAACATATGCAAGAATATGCCTGTTCTGTGATGTGGAGGAAATTT
TCCGCAAGGTTTCGATTTTCATTTGAGCAGCCAGATGGTAGAGCGCAGATGCCACCACCTGAAAGAGTGACTTTGA
CAAGATGTTTCTACCTCTTCCAGGACATTAAAATAAGGAACTGTATGAATGTCTGTGGGCAGGAAGTGAAGAG
ATCGTTCTGTAAAAGTTTTTGGAATTATGTCTGCTGAATAATAAACTTTTTTTGAAATAATAAATCTGGTAGAA
AAATGAAAAAAAAAAAAAAAAAAAA

1024/2777
FIGURE 915

MADKVLKEKRKL FIRSMGEGTINGLLDELLQTRVLNKEEMEKVKRENATVMDKTRALIDSVIPKGAQACQICITY
ICEEDSYLAGTLGLSADQTSQNYLNMQDSQGVLSFPAPQAVQDNPAMPTSSGSEGNVKLCSLEEAQRIWKQKSA
EIYPIMDKSSRTRLALI ICNEEFDSIPRRTGAEVDITGMTMLLQNLGYSDVKKNLTASDMTTELEAFahrPEHK
TSDSTFLVFMShGIREGICGKKHSEQVPDILQLNAIFNMLNNTKNCPSLKD KPKVII IQACRGDSPGVVWFKDSVG
VSGNLSLPTTEEFEDDAIKKAHIEKDFIAFCSSSTPDNVSWRHPTMGSVFIGRLIEHMQEYACSDVEEIFRKVRF
SFEQPDGRAQMPTTERTVLTTRCFYLFPGH

1025/2777
FIGURE 916

GAAAAGCCGCCGGTATTTCTCCACCTGGCTCTCCTCTACCTCCAGGCAGGCGCACCCGAGGTCCCCCTCCCACCC
CACCTTCTGCCCTCCCGCACACTTGGACCAGTGCTGTTGACCCGGAAGCGGACATTTCTGCAGCTATTCTAAGCA
CACGTCGGCGGAGGGAGCGGGACGTGGCCAGCGGTGAGCGGCGAAGGAGGCAGGCCCTGCGCGGGGATCACGGAA
GCCCTGTGATTACCAATGAAGTTCCAGTACAAGGAGGTCCATCCCTTTGAGTATCGGAAAAAGGAAGGAGAAAAG
ATCCGGAAGAAATATCCGGACAGGGTCCCCCTTGATTGTAGAGAAGGCTCCAAAAGCAAGGGTGCCTGATCTGGAC
AGGAGGAAGTACCTAGTGCCCTCCGACCTTACCGATGGCCAGTTCTACCTTTTAATCCGGAAGAGAATCCACCTG
AGACCTGAGGACGCCTTATTCTTCTTTGTCAACAACACTATCCCTCCCCTAGTGCTACCATGGGCCAACTATAT
GAGGACAGTCATGAGGAAGATGATTTTCTGTATGTGGCTACAGTAATGAGAGTGTCTATGGGAAATGAGTGGTT
GGAAGCCCAGCAGATGGAAGCACCTGGACTTAGGGGTAGGGGAGGGGTGTGTGTGTGACTTGGGGAAAGAGAGGG
CGGCTCCCACCGTGAGGAGACAGAAGGTGAAGACATATAGAACTTTACACCGCACACACCGTCAACGCATTTTC
ACATGCTCAACTGATATTTTTTGTGCTTCCTTGCCCCAGGGAGAAAGCATGTCAGGACAGAGCTGTTGGATTGG
CTTTGATAGAGGAATGGGGATGATGTAATTTTATGGCATTCCTGAGATTTAATTTTTGTGCAGTTTCATAGAAAG
GTCGGTCAGGAGGTGGACAAGTTGGGGTCAGAGATGATGGCAGTCCAGCAGCAACTCCCTGTGCTCCCTTCTCTT
TGGGCAGAGATTCTGTTTTTGACAGTTGCACAAGACAGGTAGGGAAAGGGGACTTGTGGTAGTGGGCCATACCTG
GGGACGAAAAGAGACCCACTGTAATTGATGCATCGTGGCCCCGATCTTCCGTATCCCACACTTCTTTCTCCCA
TCCCAGTTGCAATCTCACTCACAAACATCACAGTACCACCCAGGGGCGGCAGTAGACACCAACCCAGAAATTTA
GACAGGGATCTCTTATCTTTGGAAAATAGGGGTAGGCATGAGGGTGGTTATGATTAAGAAGATAATTTTGTGTG
TAAATAGCATTAACTGGAATTGACAGAGTGAGTTGAGCATCTCTGTCTAACCTGCTCTTTCTCTCTGGTGCTCC
TCATCTCACCCCTACCTTGGAATTTAATAAGCTTCAGGCATTTCCAATTGCAGACTAAAACCACTTCTACCATCT
CCTCTAGTATTTTCCATGTATCAGGACAGAGATGTCTTATGTAGGGAAGGGGCAGGTATGAAGTGAGGTAGATTA
TCTATACCTCTCACTCATTGAGGATTCTCGCTCCCATGCTGCTGTGCCITCATTCTCACACTCACAGGAATGCTA
TGTGATGGCCAGCTGCTTCCCTTCTTGGTTATCCACTGCAGCTGCTAGTTAGAAAGGTTTGCAGGGATGACTTTT
AGTAAATCATGGGGATTTTATTGATTTATTATCACTTATAGGATTTTGTGGGGTGGGAGTGGGGAGCAGGAATTG
CACTCAGACATGACATTTCAATTCATCTCTGCAAAATGAAAAGGGTCTTCCTCTTGGGGGAAATCTGTGTGTCAG
TTCTGTCAGCTGCAAGTTCTTGTGTAATGAAGTCAATGCTGTCAGGCCAAG

1026/2777
FIGURE 917

MKFQYKEVHPFEYRKKEGEKIRKKYPDRVPLIVEKAPKARVPDLDRKYLVPDLTDGQFYLLIRKRIHLRPEDA
LFFVNNNTIPPTSATMGQLYEDSHEEDDFLYVAYSNESVYGK

1027/2777
FIGURE 918

CTCTCTTGCCTGCCGCCATGTGCCTTTTCGCCTTCTGCCGTGATTGTGAGGCCTCCCCAGCCATATGGAAGTTCAG
GATGCTCTGCCCCGTGGCCCGGCTATCGGCATCGACCTGGGCACCACCTATTCTGTGCGTCGGGGTCTTCCAACATGG
CAAGGTGGAGATCATCGCCAACGACCAGGGCAATCGCACCACCCCCAGCTACGTGGCCTTCACGGACACCGAGCG
CCTCATCGGCGACGCCGCCAAGAACCAGGTGGCCATGAACCCCCACCAACACCATCTTCGACGCCAAGAGGCTGAT
TGGACGGAAATTTCAGGATGCCACAGTGCAGTCCGATATGAAACACTGGCCGTTCCGGGTGGTGAGCGAGGGAGG
CAAGCCCCAAAGTGCAAGTAGAGTACAAGGGGGAGACCAAGACCTTCTTCCCAGAGGAGATATCCTCCATGGTCTCT
CACGAAGATGAAGGAGATCGCGGAAGCCTACCTGGGGGGCAAGGTGCACAGCGCGGTCATAACGGTCCCGGCCTA
TTTCAACGACTCGCAGCGCCAGGCCACCAAGGACGCGAGGCACCATCACGGGGCTCAATGTGCTGCGCATCATCAA
CGAGCCCACGGCGGCGGCCATCGCCTACGGCCTGGACAAGAAGGGCTGCGCGGGCGGCGAGAAGAACGTGCTCAT
CTTTGACCTGGGCGGTGGCACTTTTCGACGTGTCCATCCTGACCATCGAGGATGGCATCTTCGAGGTGAAGTCCAC
GGCCGGCGACACCCACCTGGGCGGTGAGGACTTCGACAACCGCATGGTGAGCCACCTGGCGGAGGAGTTCAAGCG
CAAGCACAAGAAGGACATTGGGCCCAACAAGCGCGCCGTGAGGCGGCTGCGCACCGCTTTCGAGCGCGCCAAGCG
CACCTGAGCTCGTCCACGCAGGCGAGCATCGAGATCGACTCGCTCTACGAGGGCGTGGACTTCTATACGTCCAT
CACGCGCGCCCGCTTCGAGGAGCTCAATGCCGACCTCTTTCGCGGGACCCTGGAGCCGGTGGAGAAGGCGCTGCG
CGACGCCAAGCTGGACAAGGGCCAGATCCAGGAGATCGTGCTGGTGGGCGGCTCCACTCGTATCCCCAAGATCCA
GAAGCTGCTGCAGGATTTCTTCAACGGCAAGGAGCTGAACAAGAGCATCAACCCGACGAGGCGGTGGCCTATGG
CGCCGCGGTGCAGGCGGCCATCCTCATCGGCGACAAATCAGAGAAATGTGCAGGACCTGCTGCTACTCGACGTGAC
CCGTTGTGCTGCGTGGGCATCGAGACAGCTGGCGGTGTCATGACCCACTCATCAAGAGGAACACCACGATCCCCAC
CAAGCAGACGCAGACCTTACCACCTACTCGGACAACCAGAGCAGCGTACTGGTGCAGGTATACGAGGGCGAACG
GGCCATGACCAAGGACAATAACCTGCTGGGCAAGTTCGACCTGACCGGGATTCCCCCTGCGCCTCGCGGGGTCCC
CCAAATCGAGGTTACCTTCGACATTGACGCCAATGGCATCCTTAACGTTACCGCCGCCGACAAGAGCACCGGTAA
GGAAAACAAAATCACCATCACCATGACAAAGGTCGTCTGAGCAAGGACGACATTGACCGGATGGTGCAGGAGGC
GGAGCGGTACAAATCGGAAGATGAGGCGAATCGCGACCGAGTCGCGGCCAAAAACGCCCTGGAGTCCTATACCTA
CAACATCAAGCAGACGGTGGAAGACGAGAAACTGAGGGGCAAGATTAGCGAGCAGGACAAAAACAAGATCCTCGA
CAAGTGTCAGGAGGTGATCAACTGGCTCGACCGAAACCAGATGGCAGAGAAAGATGAGTATGAACACAAGCAGAA
AGAGCTCGAAAGAGTTTGCAACCCCATCATCAGCAAACCTTTACCAAGGTGGTCTTGGCGGCGGCAGCGGCGGCGG
CGGTTTCAGGAGCCTCCGGGGGACCCACCATCGAAGAAGTGGACTAAGCTTGCACTCAAGTCAGCGTAAACCTCTT
TGCCTTTCTCTCTCTCTCTTTTTTTTTTGTGTTTCTTTGAAATGTCCTTGTGCCAAGTACGAGATCTATTGTTG
GAAGTCTTTGGTATATGCAAATGAAAGGAGAGGTGCAACAACCTTAGTTTAATTATAAAAGTTCCAAAGTTTGT
TTTAAAAACATTATTTCGAGGTTTCTCTTTAATGCATTTTGCGTGTTTGCTGACTTGAGCATTTTTGATTAGTTTCG
TGCATGGAGATTTGTTTGAGATGAGAAACCTTAAGTTTGCACACCTGTTCTGTAGAAGCTTGAAACAGTAAAAAT
ATATAGGAGCTTAAATTGTTTATTTTTATGTACTACTTTAAAACCTAACTGAACATTGCAGTAATGTTAAGGACA
GGTATACTTTTTGCAACAAATGCATAAATGCAATGTAAAGTAAAGCTGAAATTGATCTCAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAA

1028/2777
FIGURE 919

MSARGPAIGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVAMNPTNTIFDAKRLI
GRKFEDATVQSDMKHWPFRVVSEGGKPKVQVEYKGETKTFFPEEISSMVLTKMKEIAEAYLGKGVHSAVITVPAY
FNDSQRQATKDAGTITGLNVLRIINEPTAAAIAYGLDKKGCAGGEKNVLIFDLGGGTDFDVSILTIEDGIFEVKST
AGDTHLGGEDFDNRMVSHLAEEFKRKHKDIGPNKRAVRRLRTACERAKRTLSSSTQASIEIDSLYEGVDFYTSI
TRARFEELNADLFRGTLEPVEKALRDAKLDKGQIQEIVLVGGSTRIPKIQKLLQDFFNGKELNKSINPDEAVAYG
AAVQAAILIGDKSENVQDLLLLLDVTPLSLGIETAGGVMTPLIKRNTTIPTKQTQTFTTYSQSSVLVQVYEGER
AMTKDNNLLGKFDLTGIPPAPRGVPQIEVTFDIDANGILNVTAADKSTGKENKITITNDKGRLSKDDIDRMVQEA
ERYKSEDEANRDRVAAKNALESYTYNIKQTVDEKLKGKISEQDKNKILDKCQEVINWLDNRNMAEKDEYEHKQK
ELERVCNPIISKLYQGGPGGGSGGGSGASGGPTIEEVD

1029/2777
FIGURE 920A

AGCTCCTGTGACAGACGGAGCTGGAGCGGCGGGGCGGCGGAGTCCGGCGGCCGGGAGAGCGAGTGAGCGAGC
GGAGGAGCAGCGACACGGGAGTCTAGGGAGCGAGAAGGAGAAGGAGGGGAGCGCTCGGGCGCGAGCGAGAGAAAC
CGCGAGCGCCGAGCTTGGACTCGAGCCCCGGAACGGCTGAGGAGCCCCCGCTCCCCCTCCCCCTCCCCCT
GGCCCCGGGCCAGCGCGCCATCCTCCCCCTCCTTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT
CCCCCGCCGGTGGATGGGAGTGAAGGACGGAAGAGGCCCGCGGAGGCGGCGGTGCAGCGCTCCGGTGGGAATGAA
TCTTACTTGTGTAATATCTTCTGGTTACTAGTTGGATTCAATTTGTGAAAGAATCATTTTCCCCTGTGTGGAAGAC
ACTTAGTGGCATATTTAAATTATAAGTCCACGGATCAAAAAGCTTTTTGATTTCCAAAGGAGGGACATAACCACT
ATATCAGATAAGCTTGACATTACAGCCAAGATGGTGTCTGCCAGAGACAACGAGATGAACTAAATCGAGCTATA
GCAGATTATCTTCGTTCAAATGGCTATGAAGAGGCATATTCACTTTTTAAAAAGGAAGCTGAATTAGATGTGAAT
GAAGAATTAGATAAAAAGTATGCTGGTCTTTTGGAAAAAAATGGACATCTGTTATTAGATTACAAAAGAAGGTT
ATGGAATTAGAATCAAAGCTAAATGAAGCAAAAGAAGATTTACGTCAGGTGGACCTCTTGGTCAGAAACGAGAC
CCAAAAGAATGGATTCCCCGTCCGCCAGAAAAATATGCATTGAGTGGTCACAGGAGTCCAGTCACTCGAGTCATT
TTCCATCCTGTGTTCACTGTTATGGTCTCTGCTTCAGAGGATGCTACAATTAAGGTGTGGGATTATGAGACTGGA
GATTTTGAACGAACCTTTAAAGGACATACAGACTCTGTACAGGACATTTCACTCGACCACAGCGGAAGCTTCTG
GCTTCCTGTTCTGCAGATATGACCATTAACTATGGGATTTTCAAGGGCTTTGAATGCATCAGAACCATGCACGGC
CATGACCACAATGTTTCTTCAGTAGCCATCATGCCAATGGAGATCATATAGTGTCTGCCTCAAGGGATAAACT
ATAAAATGTGGGAAGTGCAAAGTGGCTACTGTGTGAAGACATTCACAGGACACAGAGAATGGGTACGTATGGTA
CGGCCAAATCAAGATGGCACTCTGATAGCCAGCTGTTCCAATGACCAGACTGTGCGTGTATGGGTGCTAGCAACA
AAGGAATGCAAGGCTGAGCTCCGAGAGCATGAGCATGTGGTAGAATGCATTTCCCTGGGCTCCAGAAAGCTCATAT
TCCTCCATCTCTGAAGCAACAGGATCTGAGACTAAAAAAGTGGTAAACCTGGGCCATTCTTGCTGTCTGGATCC
AGAGACAAGACTATTAAGATGTGGGATGTCACTACTGGCATGTGCCTTATGACCCTCGTGGGTGCTAGATAACTGG
GTACGTGGAGTTCTGTTCCATTCTGGGGGGAAGTTTATTTTGAGTTGTGCTGATGACAAGACCCTACGCGTATGG
GATTACAAGAACAAGCGATGCATGAAGACCCTCAATGCGCATGAACACTTTGTTACCTCCTTGGATTTCCACAAG
ACGGCACCCCTATGTCGTCACTGGCAGCGTAGATCAAAACGTAAGTGTGGGAGTGCCGTTGATTGTGTCTCCTT
CGGCCCCCTCCTCCCTCCTTTTCTCTGGATGCACTCTGATGATACCATGGTTACCCCATTTAGAGCTCTGTTTAAATA
AATATTGTCCTTTTATGTAATTTATTTCTGGATGTAGATTGAGCTTATTAATGTTACACACAAAGTATTCATGCA
TGGTGAATCCAAATTGTATACTGTAAATTTACATACGTTGTCTAGAAGTACCATAGGGTTTTAAAACCTGGGCTG
GCATTGGTGCACACCAGGCCTAAGAAGGCAGAAAGTTGAATCAATTGAAGTGGGCACTAACTGAATAGTTGACAG
TGTCATTTTATGTTGGATTATTAATTCCTGTTTTCTTTCTGCTATCTGTTGGTGCCTGACTTGATGGCCTCATT
TGGGGAAAAGTGGTGGTTATTAGGGCTTTTCTGAAATGTGTATCTATGTAACATCACTTAAGTGTGCTTAATAA
ATCTCCTGTAAGGATTTTAGATGATAAGGCTACAATTCAGAATCTTCTGAACCATCTATGTAATGAATGGGGATT
ATACATTGGAATTTTTGTGTCATGACACATTTGCCAATCAGTAGGATATATTTGTTTTGGCAGCCTATCACGCAGA
GGCTAGTGGTATATTTATGTAAGAAATGACTGTAAATCTCAAGAAAAATCTCAGCAGCTAATAGCAACTCATT
ATTTCAATTTTGGTCTTAATGCTTTGTAAACAGGTCAAAAAATACTGTCATACTCTAAGCTTCTATTTTCCACACT
GGACATACTTCTAGTTGATTCTCCATACTATTAGACTGTGTAGTGTGACTTCCAAGTAGAATTTAATCTCC
CCATTGAGTGTGTCATGGTACAAATCACTATTCGTTTGGTGTTTTTTAGGGATGTGCAATGTGCATTACATAA
TGACAGAAATACTGAGAAGGTTCTGTGTGCCAATTTGAAAGGAGTGGGAGGAATACAGCAGTTTGTTTTTCAACA
TGAATCTGATATTGATTTAACTGTGTTTCACTTACAAGTTTTAAAAAATGACAGGGTTTTAATGGAGCGTGCAT
AAAAATGTAAGTTTTTACCTTTTGTATATGTAATGTTTGTAGTATATGGGCCTATCTGTAAGTGGGTAAG
TCTGTATGTGTGATCATACACATCAACCTCCATGTCCTTAGTCCCTGGGTTTTTGAAGAGTGTCTAAAACGGACA
AGTAGAATAAATGTTGCTGTGGAATGCCATGCTTTAGAACAACCCCTTTTTGATCTTAATGCTTCTGAAAACCTAG
GTCTGACTCTGGGGATTTTTTCCAGCCGAAGGAAAATCACTTCCGTTATGTCCCCCTCTAATTTAGCCGCTCGA
CATTTTACACAACCCGGATATGTTGTATATTTTGACCCAAAGTTACAGGTAGGTTTAAAGAGAATTTTAGCCATG
ACTTTTGGAGCACTATTCATTGTGAGTTATTAATAAAGAAATTCATTGCTTAGCTAACCAACAGGTTTTTTTTG
TTTCCAAGAGAGTTATTTGAAAAGTTAACAGAACAAATGAGATAACAGTGACAGTTTAAACAAAGATAAAATCTGA
ACTGCGTTTTTATTCATTTGTGTACTATGTGATTTTTTAAATGTCCCTTTAGTATTTAATGGAATAATGGTTCCCT
GCAAAAGACAAAGGTGAGAGTTAGCGTCCTGTAGATACACACAGAGACTAGGCCGTATATTAAGTAGAAGCAGC
TTTATGTCTAGCTTGTGTCTTTTTGTTTGTGTTGCTTGTGTTTTTAGATTCTGAGAGATGTCTCTGGAAGGA

1030/2777
FIGURE 920B

AAGTTTTGAGAACTAATGGCTATTTTTGAGGACAAAAATTACATCTTAAGCTAATTCCTTAAATACATACAGTAG
GTGAATTTTCAGGACAATATTGCCTCACAACCCTGCTTACATTGAAAAGTCTTTTTCCCTTAGCTCTTCTGACTG
GATTTTTCTACAAAACATATGGAAAATATCTTTGTTCTTGTTGCTGCTATTTCTGTCCTATTTTGAGAAATATA
AATACATAGAAATGGTGCATCTTAACATTTGTTTGACATGTATAAATGCTTGTATTTTAATTCATTTTTAGCA
TGAATTGTTTAAGGGTAAGCCACAACATCTAGAAATCACTCATAGATATTGAACAATAAAGGAGAATGGTACCGA
TGCAGGAGGAAGCAAGCGTGTCTTCCCCTGCAGCACACAGCGACTTGCGTTGACAAAGGAGGAGGAAACGATTAC
TCTGTAAACAAAGTTATCCTTACTTGGGAGATTGCCACAGCCTGCTGCTGAGTTGAGTTACCAGACATCCTCCAT
GTGAGAAGCAGCGAACATTGAATCTCAGGGATGGCCCACAACCTGGGTCCACATGTAATGAGCCCTGTTTAATAAC
GAAGGGGTGGGGGAGAGCAGTCCGTCTACAACCTGGAATCAGATTGCAAAATTTCCCTGCACTGCTGTCTGACAC
TGTCCTGTTGATGCCCTTTCTGACTGTGTTCTCTGTTTTCTCTGTCTGTCTAACCCTGTGCCTTGCCCTGGGA
TAAGGACAATGATGAGGTTACTGGTTTGGATTGTAAGTAGAGGACTTTTATTAATTGGTTTAGAGGTTCACTGCT
GCTTTGTCACTTTCTCAATCAAATTGGCCACTTAAGAAATAAAGAGCTGGTAGAATTGCATCCTCAGATGATTAT
TGACTGTGTGTGTGTGTGAAAACAGACATTCCAGTGCCACCCAAATATATATCTGTAACGTGCCCAAGAAATCCT
AGCTGCGCTCTTGAGAGTGCATGCCATGGAGACTGGTTTAGACACCGCGTGGAGCCTAGTTGCCTGTTGTCACGG
CATCTTGCACTTTAGGAGACTAAGACCGTCCCTGGTTTCGTCTGTGTGTGGTGTGACCAATGGTGTGCCCAGAGCAC
TACTCTCAAAATCACTAGTGTTAGCAAGTCGTCCCGGGCTGGGGAGCGTTCGCCGTAGTCTTTGGAAGCTTTGGC
TTTAGATTTACCAAGCCCCGCCTCCCCGCTGCCAGTGCCCTGCTCTCCCGTTCGCCTCTTTCTGTTTCTGTGTGA
ACTTTCCCGGTAATATCACTCGTTAAATAGGTTTTCTTTAACTTAATTAAGGAAAACTATTTAAAGGTAAAGG
ATATTTTGTTGACATCGGTGGCTCGATCATCCTTAAGCAACTGAAGTTAAATTTGTTGAAGGAAAAGGCACTTAA
ATTGGTTACTTTTCATGTCCAGCTGTATATAAGTCCAGTGTGTTTCATCTAGATGACGCAAAGAATCTCCTGGTAGA
GAAGCGACATGTAAAAAAGTGGTGGAAAAAGGTTTTGGATTTTTTTTCCAGTGGGGTGGGGGAGGGCAAGCTGG
ATTTACAGGTCACGGCTGGACTGAATGGGCCTTTTTATCTTCCCACTGTATCATGGAAGTAGCTGCTTGCTTGTA
CTGTCCATCCTTCAGGCATCCCTAAAGCTCACTCTGAAGATGTTAGAGACAAACACAACTCTTCGAGTTAAAGT
TGATCCTGACACTGACATGAAGGCAAGCCTTGATTTCGTATGAACGTTGCTGAAGTGGTAATTGAGGAAAACAGT
TCCCCAGATTGTTAAGAGTTCACTGAAGATATTGACACAATTTAAAAAATCAGTAAAGGAATGTATATAATATT
GCTCTCGTGTGTTTACAGTAAGATTTGTTGCTCTCAGACTGTGTAAACAAAATTTATTCATGTTTTCTGCATATT
AAAAATCTTATTGTACCAACTGGTAAACCG

1031/2777
FIGURE 921

MVLSQRQDELNRAIADYLRNNGYEEAYSVFKKEAELD VNEELDKKYAGLLEKKWTSVIRLQKKVMELESKLNEA
KEEFTSGGPLGQKRDPKEWIPRPPEKYALSGHRSPVTRVIFHPVFSVMVSASEDATIKVWDYETGDFERTLKGHT
DSVQDISFDHSGKLLASCSADMTIKLWDFQGFECIRTMHGHDHNVSSVAIMPNGDHIVSASRDKTIKMWEVQTGY
CVKTFTGHREWVRMVRPNQDGTLIASCSNDQTVRVVWVATKECKAELREHEHVVECISWAPESSYSSISEATGSE
TKKSGKPGPFLLSGSRDKTIKMWDVSTGMCLMTLVGHDNWWVRGVLFHSGGKFILSCADDKTLRVWDYKNKRCMKT
LNAHEHFVTSLDFHKTAPYVVTGSVDQTVKVWECR

1032/2777
FIGURE 922

TCAGAGTC~~CGG~~GCTCAGGCTCCGGCTGCGGCTCCAGCCCGC~~GATG~~CCCCATTCCGTGACCCTGCGCGGGCCTTCGC
CCTGGGGCTTCCGCTGGTGGGCGGCCGGGACTTCAGCGCGCCCTCACCATCTCACGGGTCCATGCTGGCAGCA
AGGCTGCATTGGCTGCCCTGTGCCAGGAGACCTGATCCAGGCCATCAATGGTGAGAGCACAGAGCTCATGACAC
ACCTGGAGGCACAGAACCGCATCAAGGGCTGCCACGATCACCTCACACTGTCTGTGAGCAGGCCTGAGGGCAGGA
GCTGGCCCAGTGCCCTGATGACAGCAAGGCTCAGGCACACAGGATCCACATCGATCCTGAGATCCAGGACGGCA
GCCCACAACAGCAGGCGGCCCTCAGGCACCGGGACTGGGCCAGAAGATGGCAGACCAAGCCTGGGATCTCCAT
ATGGACAACCCCTCGCTTTCCAGTCCCTCACAATGGCAGCAGCGAGGCCACCCTGCCAGCCAGATGAGCACCC
TGCATGTGTCTCCACCCCCAGCGCTGACCCAGCCAGAGGCTCCCGCGGAGCCGGGACTGCAGAGTCGACCTGG
GCTCCGAGGTGTACAGGATGCTGCGGGAGCCAGCCGAGCCCGTGGCCGCGGAGCCCAAGCAGTCAGGCTCCTTCC
GCTACTTGCAGGGCATGCTAGAGGCCGGCGAGGGCGGGGATTGGCCCGGGCTGGCGGGCCCCGGAACCTCAAGC
CCACGGCCAGCAAGCTGGGCGCTCCGCTGAGCGGCCTGCAGGGGCTGCCGAGTGACGCGCTGCGGCCACGGCA
TCGTGGGCACCATCGTCAAGGCACGGGACAAGCTCTACCATCCCGAGTGCTTCATGTGAGTGAAGTGCAGGCTGA
ACCTCAAGCAGCGTGGTTACTTCTTTCTGGACGAGCGGCTCTACTGTGAGAGCCACGCCAAGGCGCGCGTGAAGC
CGCCCGAGGGCTACGACGTGGTGGCGGTGTACCCCAATGCCAAGGTGGAACCTCGTCT~~AG~~AGCTGGGACCCTGCTCC
CACGCTGCTTCTTAAGGTCCCTGCTCGGCCGGTGTAATATGTTTACCCTGTCCCTCTAATAAAGCTCCTCTG
CTCCACCTTGAACCTGTCACCTGGCCTGCCACCCTCCTGCGCAGGCCATGCATGGCTCCCGAGTACAGTAGTATC
TGCTTAGGTGCCAGGCATGTCCTAGGCTCTGGGTGCAGTAGTGAGCAGGACGGGTACCATGCTGCCCTGAAGGGG
CCACAGCCTGGGTGGAAGGCAGACCTGAATCACAACGGGCCAGCTCTAGTAATACGAAGGTGAGGTCTGGGATGC
TGCGTGCGGCGCGACGACAGGAGGTATGACCTGGGTGGGGTCAGGGAAAGTCTTAGCTGAGAACTAAGAGATGAG
GGAGGCACAACTCTGCACGGGGGAACTGTGTGTGCAAAGGTGAGCTGGGGGCGAGAAAGGCCTCTGTGGCCGTC
ATCGGCACTAGCGGTTGGGGGTGGTGGTGGGGTGCTGGCAGCCTCAGGAGCGATCGCTCCCTGGAGAGGGTGA
TTGAGTGTGAGATCACCGGGGCCCGCGGGCGGCTCTGCACTTCTGTTCCAGGTTTTTCTGGCATTCTTCTGTTT
CAGGTTTTCTTCCACCCACGAGCACTTTATTTCTCTCCGAGACCCCTTTTCTTCCCCTTCTCTCTCCACCAGG
GGGCGCGCTTAAATTTCCAGACAGAGACCAGAAGGAAGTTTAGAAAGAAAAGAACTTGCCCAGGGCAGCTTT
GCCCTCCAAGAGGCTCCCTCCTGTCTCTAAGTCAATTCCACCCCTCCTCGAAGTCCCGGCTTCCACCCCTCTCCT
CAGAGTCCCGGCGTTTACCTCGTGGTGTGTTTGCCTTGGGCCTTTTCATGCCCCGGCTGCACACATCGTCTGTGAA
TTGTGGCTGTTCACTCCCGAGGATGTGTCTTAGACTCCGGGTGCGGTGGATCTACCCTCTAGTTTACTTGCTCGG
GAGAAGAACTGACTCGTTTTATTTAGTGCTATTTAGCGAGCCAGAGTAACGTACATTTGTGCTGTTTTCAAT
TTTGTGCTATCGCAAATCACAAAAAACTGTTATCAATTACATTATCATCAGCACGAGACCCATTTCTTGTG
CTCCTGCCAGCTCAGGATATTATGTTTCTTTTTTCATTTTTGCCAGTCTGTTAAGTAAATGTATATGCGTTT
TTTTAA

1033/2777
FIGURE 923

MPHSVTLRGPSPWGFRLVGGRDFSAPLTISR VHAGSKAALAA LCPGD LIQAINGESTELMTHLEAQNRIKGCHDH
LTLSVSRPEGRSWPSAPDDSKAQAHRIHIDPEIQDGSPTTSRRPSGTGTGPEDGRPSLGSPYQPPRFVPHNGS
SEATLPAQMSTLHVSPPPSADPARGLP RSRDCRVDLGSEVYRMLREPAEPVAAEPKQSGSF RYLQGMLEAGEGGD
WPGPGGPRNLKPTASKLGAPLSGLQGLPECTRCGHGIVGTIVKARDKLYHPECFMCSDCGLNLKQRGYFFLDERL
YCESHAKARVKPPEGYDVVAVYPNAKVELV

1034/2777
FIGURE 924A

GCTGCCCCGAGCCTTTCTGGGGAAGAACTCCAGGCGTGCGGACGCAACAGCCGAGAACATTAGGTGTTGTGGACA
GGAGCTGGGACCAAGATCTTCGGCCAGCCCCGCATCCTCCCGCATCTTCCAGCACCGTCCCGCACCCCTCCGCATC
CTTCCCCGGGCCACCACGCTTCTATGTGACCCGCTGGGCAACGCCGAACCCAGTCGCGCAGCGCTGCAGTGAA
TTTTCCCCCAAACCTGCAATAAGCCGCTTCCAAGGCCAAGATGTTTCATAAATATAAAGAGCATCTTATGGATGT
GTTCAACCTTAATAGTAACCCATGCGCTACATAAAGTCAAAGTGGGAAAAAGCCACCGGTGAGGGGCTCCCTCT
CTGGAAAAGTCAGCCTACCTTGTCAATTTTTCAACGATGCCTACTTTGCCACCCAGTTACAACACCAGTGAATTC
TCCGCATCAAATGGTCTAAGATTGAAGTGGACAAAAATGGAAAAGATTTGAAAGAGACTACTGTCCTTGTGGCCC
AAAATGGAAATATCAAGATTGGTCAGGACTACAAAGGGAGAGTGTCTGTGCCACACATCCCAGAGCTGTGGGCG
ATGCCTCCCTCACTGTGGTCAAGCTGCTGGCAAGTGATGCGGGTCTTTACCGCTGTGACGTCATGTACGGGATTG
AAGACACACAAGACACGGTGTCACTGACTGTGGATGGGGTTGTGTTTCACTACAGGGCGGCAACCAGCAGGTACA
CACTGAATTTTGAGGCTGCTCAGAAGGCTTGTGTTGGACGTTGGGGCAGTCATAGCAACTCCAGAGCAGCTCTTG
CTGCCTATGAAGATGGATTTGAGCAGTGTGACGCAGGCTGGCTGGCTGATCAGACTGTGAGATATCCCATCCGGG
CTCCAGAGTAGGCTGTTATGGAGATAAGATGGGAAAGGCAGGAGTCAGGACTTATGGATTCCGTTCTCCCCAGG
AACTTACGATGTGTATTGTTATGTGGATCATCTGGATGGTGTATGTGTTCCACCTCACTGTCCCCAGTAAATTCA
CCTTCGAGGAGGCTGCAAAAGAGTGTGAAAACCAGGATGCCAGGCTGGCAACAGTGGGGGAACTCCAGGCGGCAT
GGAGGAACGGCTTTGACCAGTGCGATTACGGGTGGCTGTGCGATGCCAGCGTGCGCCACCCCTGTGACTGTGGCCA
GGGCCCAGTGTGGAGGTGGTCTACTTGGGGTGAGAACCCTGTATCGTTTGAAGAACAGACAGGCTTCCCTCCCC
CTGATAGCAGATTTGATGCCTACTGCTTTAAACCTAAAGAGGCTACAACCATCGATTTGAGTATCCTCGCAGAAA
CTGCATACCCAGTTTATCCAAAGAACCACAAATGGTTTCTGATAGAACTACACCAATCATCCCTTTAGTTGATG
AATTACCTGTCAATTCACAGAGTTCCTTCCCGTGGGAAATATTGTGAGTTTGAACAGAAAGCCACAGTCCAAC
CTCAGGCTATCACAGATAGTTTAGCCACCAAATTACCCACACCTACTGGCAGTACCAAGAAGCCCTGGGATATGG
ATGACTACTCACCTTCTGCTTCAGGACCTCTTGGAAAGCTAGACATATCAGAAATTAAGGAAGAAGTGCTCCAGA
GTACAACTGGCGTCTCTCATTATGTACGGATTCAIGGGATGGTGTGCTGGAAGATAAAACAAACACAAGAATCGG
TTACACAGATTGAACAAATAGAAGTGGGTCTTTGGTAACATCTATGGAATCTTAAAGCACATTCTTTCCAAGG
AATTCCCTGTAACTGAAACACCATTTGGTAACTGCAAGAATGATCCTGGAATCCAAAACCTGAAAAGAAAATGGTAA
GCACTGTTTCTGAATTGGTAACACAGGTCATATGGATTACCTTGGGAGAAGAGGATGATGAAGACAGAACAC
TTACAGTTGGATCTGATGAGAGCACCTTGATCTTTGACCAAATTCCTGAAGTCATTACGGTGTCAAAGACTTCAG
AAGACACCATCCACACTCAATTTAGAAGACTTGGAGTCAGTCTCAGCATCCACAACCTGTTTCCCTTTAATTATGC
CTGATAATAATGGATCATCCATGGATGACTGGGAAGAGAGACAACTAGTGGTAGGATAACGGAAGAGTTTCTTG
GCAATATCTGTCTACTACACCTTTTCCATCACAGCATCGTACAGAAATAGAATTGTTTCTTATTCTGGTGATA
AAATATTAGTAGAGGGAATTTCCACAGTTATTTATCCTTCTCTACAAACAGAAATGACACATAGAAGAGAAAGAA
CAGAAACACTAATACCAGAGATGAGAACAGATACTTATACAGATGAAATACAAGAAGAGATCACTAAAAGTCCAT
TTATGGGAAAAACAGAAGAAGAAGTCTTCTCTGGGATGAACTCTCTACATCTCTCTCAGAGCCAATTCATGTTA
CAGAGTCTTCTGTGGAAATGACCAAGTCTTTTGATTTCCCAACATTGATAACAAAGTTAAGTGCAGAGCCAACAG
AAGTAAGAGATATGGAGGAAGACTTTACAGCAACTCCAGGTACTACAAATATGATGAAAATATTACAACAGTGC
TTTTGGCCCATGGTACTTTAAGTGTGAAGCAGCCACTGTATCAAATGGTCATGGGATGAAGATAATACAACAT
CCAAGCCTTTAGAGTCTACAGAACCTTCAGCCTCTTCAAATTTGCCCCCTGCCTTACTCACAACCTGTGGGGATGA
ATGGAAAGGATAAAGACATCCCAAGTTTCACTGAAGATGGAGCAGATGAATTTACTCTTATTCAGATAGTACTC
AAAAGCAGTTAGAGGAGGTTACTGATGAAGACATAGCAGCCCATGGAAAATTCACAATTAGATTTAGCCAACTA
CATCAACTGGTATTGCAGAAAAGTCAACTTTGAGAGATTCTACAACCTGAAGAAAAAGTTCCACCTATCACAAGCA
CTGAAGGCCAAGTTTATGCAACCATGGAAGGAAGTGCTTTGGGTGAAGTAGAAGATGTGGACCTCTCTAAGCCAG
TATCTACTGTTCCCCAATTTGCACACACTTCAGAGGTGGAAGGATTAGCATTGTTAGTTATAGTAGCACCCAG
AGCCTACTACTTATGTAGACTCTTCCCATACCATTCCTCTTTCTGTAATTCCCAAGACAGACTGGGGAGTGTTAG
TACCTTCTGTTCCATCAGAAGATGAAGTTCTAGGTGAACCCTCTCAAGACATACTTGTCAATTGATCAGACTCGCC
TTGAAGCGACTATTTCTCCAGAACTATGAGAACAACAAAAATCACAGAGGGAACAACCTCAGGAAGAATTCCCTT
GGAAAGAACAGACTGCAGAGAAACCAGTTTCTGCTCTCAGTTCTACAGCTTGGACTCCCAAGGAGGCAGTAACAC
CACTGGATGAACAAGAGGGCGATGGATCAGCATATACAGTCTCTGAAGATGAATTGTTGACAGGTTCTGAGAGGG
TCCAGTTTTAGAAACAACCTCAGTTGGAAAATTGATCACAGTGTGTCTTATCCACCAGGTGCTGTAACCTGAGC

1035/2777
FIGURE 924B

ACAAAGTGAAAACAGATGAAGTGGTAACACTAACACCACGCATTGGGCCAAAAGTATCTTTAAGTCCAGGGCCTG
AACAAAAATATGAAACAGAAGGTAGTAGTACAACAGGATTTACATCATCTTTGAGTCCTTTTAGTACCCACATTA
CCCAGCTTATGGAAGAAACCACTACTGAGAAAACATCCCTAGAGGATATTGATTTAGGCTCAGGATTATTTGAAA
AGCCCCAAGCCACAGAACTCATAGAATTTTCAACAATCAAAGTCACAGTTCCAAGTGATATTACCACTGCCTTCA
GTTCAGTAGACAGACTTCACACAACCTTCAGCATTCAAGCCATCTTCCGCGATCACTAAGAAACCACCTCTCATCG
ACAGGGAACCTGGTGAAGAAACAACCACTGACATGGTAATCATTGGAGAATCAACATCTCATGTTCTCTCCCACTA
CCCTTGAAGATATTGTAGCCAAGGAAACAGAAACCGATATTGATAGAGAGTATTTACGACTTCAAGTCCTCCTG
CTACACAGCCAACAAGACCACCCACTGTGGAAGACAAAGAGGCCCTTTGGACCTCAGGCGCTTTCTACGCCACAGC
CCCCAGCAAGCACAAAATTTACCCCTGACATTAATGTTTATATTATTGAGGTCAGAGAAAATAAGACAGGTGCGAA
TGAGTGATTTGAGTGTAATTGGTTCATCCAATAGATTGAGAACTCTAAAGAAGATGAACCTTGATGTGAAGAAACAG
ATCCAGTGATGATCTAATGGCTGAAAATTTTACCTGAATTCCTTGACATAATTGAAATAGACCTATACCACAGTG
AAGAAAATGAAGAAGAAGAAGAGTGTGCAAATGCTACTGATGTGACAACCACCCCATCTGTGCAGTACATAA
ATGGGAAGCATCTCGTTACCACTGTGCCCAAGGACCCAGAAGCTGCAGAAGCTAGGCGTGGCCAGTTTGAAAAGTG
TTGCACCTTCTCAGAAATTTCTCGGACAGCTCTGAAAGTGATACTCATCCATTTGTAATAGCCAAAACGGAATTGT
CTACTGCTGTGCAACCTAATGAATCTACAGAAAACACTGAGTCTCTTGAAGTTACATGGAAGCCTGAGACTTACC
CTGAAACATCAGAACATTTTTCAGGTGGTGAGCCTGATGTTTTCCCCACAGTCCCATTTCCATGAGGAATTTGAAA
GTGGAACAGCCAAAAAAGGGGCAGAAATCAGTCACAGAGAGAGATACTGAAGTTGGTTCATCAGGCACATGAACATA
CTGAACCTGTATCTCTGTTTCTGAAGAGTCTTCAGGAGAGATTGCCATTGACCAAGAATCTCAGAAAATAGCCT
TTGCAAGGGCTACAGAAGTAACATTTGGTGAAGAGGTAGAAAAAGTACTTCTGTACATACACTCCCCTATAG
TTCCAAGTTCTGCATCAGCATATGTTTCAGAGGAAGAAGCAGTTACCCTAATAGGAAATCCTTGGCCAGATGACC
TGTTGTCTACCAAAGAAAGCTGGGTAGAAGCAACTCCTAGACAAGTTGTAGAGCTCTCAGGGAGTTCTTCGATTC
CAATTACAGAAGGCTCTGGAGAAGCAGAAGAAGATGAAGATACAATGTTTACCATGGTAAGTATTTATCACAGA
GAAATACTACTGATACACTCATTACTTTAGACACTAGCAGGATAATCACAGAAAGCTTTTTTGGAGTTCTTGCAA
CCACCATTTATCCAGTTTCTGAACAACCTTCTGCAAAAGTGGTGCCTACCAAGTTTGTAAGTGAAACAGACACTT
CTGAGTGGATTTCCAGTACCCTGTTGAGGAAAAGAAAAGGAAGGAGGAGGGAAGTACAGGTACGGCTTCTA
CATTTGAGGTATATTCTATCTACACAGAGATCGGATCAATTAATTTTACCCTTTGAATTAGAAAGTCCAAATGTAG
CTACATCTAGTGATTGAGGTACCAGGAAAAGTTTTATGTCTTGACAACACCAACACAGTCTGAAAGGGGAAATGA
CAGATTCTACTCTGTCTTTACAGAAACAAATACATTAGAAAATTTGGGGGCACAGACCACTGAGCACAGCAGTA
TCCATCAACCTGGGGTTTCAGGAAGGGCTGACCACTCTCCACGTAGTCTGCTCTGTCTTTATGGAGCAGGGCT
CTGGAGAAGCTGCTGCCGACCCAGAAACCACCACTGTTTCTTCATTTTTCATTAAACGTAGAGTATGCAATTCAAG
CCGAAAAGGAAGTAGCTGGCACTTTGTCTCCGCATGTGGAACCTACATTCTCCACTGAGCCAACAGGACTGGTTT
TGAGTACAGTAATGGACAGAGTAGTTGCTGAAAATATAACCCAAACATCCAGGGAAATAGTGATTTTCAGAGCGAT
TAGGAGAACCAATTATGGGGCAGAAATAAGGGGCTTTTCCACAGGTTTCTTTGGAGGAAGATTTTCAGTGGTG
ACTTTAGAGAATACTCAACAGTGTCTCATCCATAGCAAAAGAAGAAACGGTAATGATGGAAGGCTCTGGAGATG
CAGCATTTAGGGACACCCAGACTTCACCATCTACAGTACCTACTTCAGTTCACATCAGTCACATATCTGACTCAG
AAGGACCCAGTAGCACCATGGTCAGCACTTCAGCCTTCCCCTGGGAAGAGTTTACATCCTCAGCTGAGGGCTCAG
GTGAGCAACTGGTCACAGTCAGCAGCTCTGTTGTTCCAGTGCTTCCAGTGCTGTGCAAAAGTTTTCTGGTACAG
CTTCTCCATTATCGACGAAGGATTGGGAGAAGTGGGTACTGTCAATGAAATTGATAGAAGATCCACCATTTTAC
CAACAGCAGAAGTGGAAGGTACGAAAGCTCCAGTAGAGAAGGAGGAAGTAAAGGTGAGTGGCACAGTTTCAACAA
ACTTTCCCCAACTATAGAGCCAGCCAAATTATGGTCTAGGCAAGAAGTCAACCCTGTAAGACAAGAAATTGAAA
GTGAAACAACATCAGAGGAACAAATTCAAGAAGAAAAGTCATTTGAATCCCCTCAAAACTCTCCTGCAACAGAAC
AAACAATCTTTGATTACAGACATTTACTGAACTGAACTCAAACCACAGATTATTCTGTACTAACAACAAAGA
AACTTACAGTGATGATAAAGAAATGAAGGAGGAAGACACTTCTTTAGTTAACATGTCTACTCCAGATCCAGATG
CAAATGGCTTGGAATCTTACACAACCTCTCCCTGAAGCTACTGAAAAGTCACATTTTTTCTTAGCTACTGCATTAG
TAAGTGAATCTATACCAGCTGAACATGTAGTCACAGATTACCAATCAAAAAGGAAGAAAGTACAAAACATTTTC
CGAAAGGCATGAGACCAACAATTCAAGAGTCAGATACTGAGCTCTTATTCTCTGGACTGGGATCAGGAGAAGAAG
TTTTACCTACTCTACCAACAGAGTCAGTGAATTTTACTGAAGTGGAACAAATCAATAACACATTATATCCCCACA
CTTCTCAAGTGGAAGTACCTCAAGTGACAAAATTGAAGACTTTAACAGAATGGAAGTGTGGCAAAAGAAGTTG

1036/2777
FIGURE 924C

GACCACTCGTATCTCAAACAGACATCTTTGAAGGTAGTGGGTCAGTAACCAGCACAAACATTAATAGAAATTTTAA
GTGACACTGGAGCAGAAGGACCCACGGTGGCACCTCTCCCTTTCTCCACGGACATCGGACATCTCAAAATCAGA
CTGTCAGGTGGGCAGAAGAAATCCAGACTAGTAGACCACAAACCATAACTGAACAAGACTCTAACAAGAATTCTT
CAACAGCAGAAATTAACGAAACAACAACCTCATCTACTGATTTTCTGGCTAGAGCTTATGGTTTTGAAATGGCCA
AAGAATTTGTTACATCAGCACCAAAACCATCTGACTTGTATTATGAACCTTCTGGAGAAGGATCTGGAGAAGTGG
ATATTGTTGATTCATTTACACTTCTGCAACTACTCAGGCAACCAGACAAGAAAGCAGCACCACATTTGTTTCTG
ATGGGTCCCTGGAAAAACATCCTGAGGTGCCAAGCGCTAAAGCTGTTACTGCTGATGGATTCCCAACAGTTTCAG
TGATGCTGCCTCTTCATTAGAGCAGAACAAAAGCTCCCCTGATCCAACCTAGCACACTGTCAAATACAGTGTCAAT
ATGAGAGGTCCACAGACGGTAGTTTCCAAGACCGTTTCAGGGAATTCGAGGATTCCACCTTAAACCTAACAGAA
AAAAACCCACTGAAAATATTATCATAGACCTGGACAAAGAGGACAAGGATTTAATATTGACAATTACAGAGAGTA
CCATCCTTGAAATTTCTACCTGAGCTGACATCGGATAAAAAATACTATCATAGATATTGATCATACTAAACCTGTGT
ATGAAGACATTCTTGGAATGCAACAGATATAGATACAGAGGTACCATCAGAACCACATGACAGTAATGATGAAA
GTAATGATGACAGCACTCAAGTTCAAGAGATCTATGAGGCAGCTGTCAACCTTTCTTTAACTGAGGAAACATTTG
AGGGCTCTGCTGATGTTCTGGCTAGCTACACTCAGGCAACACATGATGAATCAATGACTTATGAAGATAGAAGCC
AACTAGATCACATGGGCTTTCACTTCACAACTGGGATCCCTGCTCCTAGCACAGAAACAGAATTAGACGTTTTAC
TTCCCACGGCAACATCCCTGCCAATTCCTCGTAAGTCTGCCACAGTTATTCAGAGATTGAAGGAATAAAAGCTG
AAGCAAAAGCCCTGGATGACATGTTTGAATCAAGCACTTTGTCTGATGGTCAAGCTATTGCAGACCAAAAGTGAAA
TAATACCAACATTGGGCCAATTTGAAAGGACTCAGGAGGAGTATGAAGACAAAAACATGCTGGTCTTCTTTTC
AGCCAGAATTCTCTTCAGGAGCTGAGGAGGCATTAGTAGACCATACTCCCTATCTAAGTATTGCTACTACCCACC
TTATGGATCAGAGTGTAACAGAGGTGCCTGATGTGATGGAAGGATCCAATCCCCCATATTACACTGATACAACAT
TAGCAGTTTCAACATTTGCGAAGTTGTCTTCTCAGACACCATCATCTCCCCTCACTATCTACTCAGGCAGTGAAG
CCTCTGGACACACAGAGATCCCCCAGCCAGTGCTCTGCCAGGAATAGACGTCCGGCTCATCTGTAATGTCCCCAC
AGGATTCTTTTAAGGAAATTCATGTAAATATTGAAGCACTTTCAAACCATCAAGTGAGGAATACCTTCACATAA
CTGAGCCTCCCTCTTTATCTCCTGACACAAAATTAGAACCTTCAGAAGATGATGGTAAACCTGAGTTATTAGAAG
AAATGGAAGCTTCTCCACAGAACTTATTGCTGTGGAAGGAACCTGAGATTCTCCAAGATTTCCAAAACAAAACCG
ATGGTCAAGTTTCTGGAGAAGCAATCAAGATGTTTCCCACCATTAAACACCTGAGGCTGGAAGTGTATTACAA
CTGCCGATGAAATTGAATTAGAAGGTGCTACACAGTGGCCACACTCTACTTCTGCTTCTGCCACCTATGGGGTCG
AGGCAGGTGTGGTGCCTTGGCTAAGTCCACAGACTTCTGAGAGGCCACGCTTTCTTCTTCTCCAGAAATAAACC
CTGAAACTCAAGCAGCTTTAATCAGAGGGCAGGATTCCACGATAGCAGCATCAGAACAGCAAGTGGCAGCGAGAA
TTCTTGATTCCAATGATCAGGCAACAGTAAACCTGTGGAATTTAATACTGAGGTTGCAACACCACCATTTTCCC
TTCTGGAGACTTCTAATGAAACAGATTTCTTGATTGGCATTAAATGAAGAGTCAGTGAAGGCACGGCAATCTATT
TACCAGGACCTGATCGCTGCAAAATGAACCCGTGCCTTAACGGAGGCACCTGTTATCCTACTGAAACTTCCTACG
TATGCACCTGTGTGCCAGGATACAGCGGAGACCAGTGTGAACCTTGATTTTGATGAATGTCACTCTAATCCCTGTC
GTAATGGAGCCACTTGTGTTGATGGTTTTAACACATTGAGGTGCCTCTGCCTTCCAAGTTATGTTGGTGCACTTT
GTGAGCAAGATACCGAGACATGTGACTATGGCTGGCACAATTTCAAGGGCAGTGCTACAAATACTTTGCCCATC
GACGCACATGGGATGCAGCTGAACGGGAATGCCGTCTGCAGGGTGCCCATCTCACAAGCATCCTGTCTCACGAAG
AACAAATGTTTGTAAATCGTGTGGGCCATGATTATCAGTGGATAGGCCTCAATGACAAGATGTTTGAGCATGACT
TCCGTTGGACTGATGGCAGCACACTGCAATACGAGAATTGGAGACCCAACCAGCCAGACAGCTTCTTTTCTGCTG
GAGAAGACTGTGTTGTAATCATTGTCATGAGAATGGCCAGTGAATGATGTTCCCTGCAATTACCATCTCACCT
ATACGTGCAAGAAAGGAACAGTTGCTTGCGGCCAGCCCCCTGTTGTAGAAAATGCCAAGACCTTTGGAAAAGATGA
AACCTCGTTATGAAATCAACTCCCTGATTAGATACCACTGCAAGATGGTTTCATTCAACGTACCTTCCAACATA
TCCGGTGCTTAGGAAATGGAAGATGGGCTATACCTAAAATTACCTGCATGAACCCATCTGCATACCAAAGGACTT
ATTCTATGAAATACTTTAAAAATTCCTCATCAGCAAAGGACAATTCAATAAATACATCCAAACATGATCATCGTT
GGAGCCGGAGGTGGCAGGAGTCGAGGCGCTGATCCCTAAAATGGCGAACATGTGTTTTTCATCATTTCAGCCAAAG
TCCTAACTTCTGTGCCTTTCTATCACCTCGAGAAGTAATTATCAGTTGGTTTTGGATTTTTGGACCACCGTTCA
GTCATTTTGGGTGGCGTGCTCCCAAAACATTTTAAATGAAAGTATTGGCATTCAAAAAGACAGCAGACAAAATG
AAAGAAAATGAGAGCAGAAAGTAAGCATTTCAGCCTATCTAATTTCTTTAGTTTTCTATTTGCCTCCAGTGCAG
TCCATTTCTAATGTATACCAGCCTACTGTACTATTTAAAATGCTCAATTTACGACCCGATGGCCATGTAAATAA

1037/2777
FIGURE 924D

GATGATTTAATGTTGATTTTAATCCTGTATATAAAATAAAAAGTCACAATGAGTTTGGGCATATTTAATGATGAT
TATGGAGCCTTAGAGGTCTTTAATCATTGGTTCGGCTGCTTTTATGTAGTTTAGGCTGGAAATGGTTTCACTTGC
TCTTTGACTGTCAGCAAGACTGAAGATGGCTTTTCCTGGACAGCTAGAAAACACAAAATCTTGTAGGTCATTGCA
CCTATCTCAGCCATAGGTGCAGTTTGCTTCTACATGATGCTAAAGGCTGCGAATGGGATCCTGATGGAACATAAGG
ACTCCAATGTCGAACCTTTCTTTGCTGCATTCCTTTTCTTCACTTACAAGAAAGGCCTGAATGGAGGACTTTTC
TGTAACCAGG

1038/2777
FIGURE 925

MFINKSILWMCSTLIVTHALHKVKVGKSPVVRGSLSGKVS L PCHFS T MPTLP P S Y N T S E F L R I K W S K I E V D K N G
KDLKETTVLVAQNGNIKIGQDYKGRVSVPTHP EAVGDASLTVVKLLASDAGLYRCDVMYGIEDTQDTVSLTV DGV
VFHYRAATSRYTLNFEEAAQKACLDVGAVIATPEQLFAAYEDGFEQCDAGWLADQTVRYP I R A P R V G C Y G D K M G K A
GVRTYGFRSPQETYDVYCYVDHLDGDV FHLTVPSKFTFE EAAKECENQDARLATVGELQAAWRNGFDQCDYGWLS
DASVRHPVTVARAQCGGGLLGVRTLYRFENQTGFPPPD S R F D A Y C F K P K E A T T I D L S I L A E T A S P S L S K E P Q M V S
DRTTPIIPLVDEL P V I P T E F P P V G N I V S F E Q K A T V Q P Q A I T D S L A T K L P T P T G S T K K P W D M D D Y S P S A S G P L G K L
DISEIKEEVLQSTTGVS HYATDSWDGVVEDKQTQESVTQIEQIEVGPLVTSMEILKHIPSKEFPVTETPLVTARM
ILES KTEKKMVSTVSELVTTGHYGT L G E E D D E D R T L T V G S D E S T L I F D Q I P E V I T V S K T S E D T I H T H L E D L E S V
SASTTVSPLIMPDNNGSSMDDWEERQTSGRITEEFLGKYLSTTPFPSQHRTEIELFPYSGDKILVEGISTVIYPS
LQTEMTHRRERTETLIPEMRTD TYTDEIQEEITKSPFMGKTEEEVFSGMKLSTSLSEPIHVTESSVEMTKSFD F P
TLITKLSAEPTEVRDMEEDFTATPGTTKYDENITTVLLAHGTL SVEAATVSKWSWDEDNTTSKPLESTEPSASSK
LPPALLTTVGMNGKDKDIPSFTEDGADEFTLIPDSTQKQLEEVTDEDIAAHGKFTIRFQPTTSTGIAEKSTLRDS
TTEEKVPPITSTEGQVYATMEGSALGEVEDVDLSKPVSTVPQFAHTSEVEGLAFVSYSSTQEPTTYVDS SHTIPL
SVIPKTDWGVLPVSPVSEDEVLGEP SQDILVIDQTRLEATISPETMR TTKITEGTTQEEFPWKEQTAEKPVPALS
STAWTPKEAVTPLDEQEGDGSAYTVSEDELLTGSE RVPVLETPVGKIDHSVSYP PGAVTEHKVKTDEVVTLTPR
IGPKVSLSPGPEQKYETEGSSTTGFTSSLS P F S T H I T Q L M E E T T T E K T S L E D I D L G S G L F E K P K A T E L I E F S T I K
VTVPSDITTA FSSVDR LHTTSAFKPSSAITKKPPLIDREPGEETTSDMVIIGESTSHVPPTTLEDIVAKETETDI
DREYFTTSSPPATQPTRPTVEDKEAFGPQALSTPQPPASTKFHPDINVIIEVRENKTGRMSDLSVIGHPIDSE
SKEDEPCSEETDPVHDLMAEILPEFPDII EIDLYHSENEEEEEECANATDVTTTPSVQYINGKHLVTTVPKDPE
AAEARRGQFESVAPSQNFS D S S E S D T H P F V I A K T E L S T A V Q P N E S T E T T E S L E V T W K P E T Y P E T S E H F S G G E P D V
FPTVPFHEEFESGTAKKGAESVTERDTEVGHQAHEHTEPVSLFPEESSGEIAIDQESQKIAFARATEVTFGEEVE
KSTSVTYTPTIVPSSASAYVSEEEAVTLIGNPWPDDLSTKESWVEATPRQVVELSGSSSIPITEGSGEAEDED
TMFTMVTDL SQRNTDTLITLDTSRITTESFF E V P A T T I Y P V S E Q P S A K V V P T K F V S E T D T S E W I S S T T V E E K K R
KEEGTTGTASTFEVYSSTQ R S D Q L I L P F E L E S P N V A T S S D S G T R K S F M S L T T P T Q S E R E M T D S T P V F T E T N T L E
NLGAQTTEHSSI HQPGVQEG L T T L P R S P A S V F M E Q G S G E A A D P E T T T V S S F S L N V E Y A I Q A E K E V A G T L S P H V E
TTFSTEPTGLVLSTVMDRVVAENITQTSREIVISERLGEPNYGAEIRGFSTGFPLEEDFSGDFREYSTVSHPIAK
EETVMMEGSGDAAFRDTQTSPSTVPTSVHISHISDSEGPSSTMVSTSAFP

1039/2777
FIGURE 926

AGCTAGCTGCAGCGACTACCGCATCATCAGCCTGTTGAACTCTTCTGAGCAAGAGAAGGGGAGGCGGGTAAG
GGAAGTAGGTGGAAGATTAGCCAAGCTCAAGGATGGAAGTGCAGTTAGGGCTGGGAAGGGTCTACCCTCGGCCG
CCGTCCAAGACCTACCGAGGAGCTTTCCAGAATCTGTTCCAGAGCGTCCGCGAAGTGATCCAGAACCCGGGCCCC
AGGCACCCAGAGGCCGCGAGCGCAGCACCTCCCGCGCCAGTTTGCTGCTGCTGCAGCAGCAGCAGCAGCAGCAG
CAGCAGCAGCAGCAGCAGCAGCAGCAAGAGACTAGCCCCAGGCAGCAGCAGCAGCAGCAGGAGGTGAGGATGGTTCT
CCCCAAGCCCATCGTAGAGGCCCCACAGGCTACCTGGTCTGGATGAGGAACAGCAACCTTTCACAGCCGAGTCG
GCCCTGGAGTGCCACCCCGAGAGAGGTTGCGTCCCAGAGCCTGGAGCCGCCGTGGCCGCCAGCAAGGGGCTGCCG
CAGCAGCTGCCAGCACCTCCGGACGAGGATGACTCAGCTGCCCCATCCACGTTGTCCCTGCTGGCCCCCACTTTC
CCCGGCTTAAGCAGCTGCTCCGCTGACCTTAAAGACATCCTGAGCGAGGCCAGCACCATGCAACTCCTTCAGCAA
CAGCAGCAGGAAGCAGTATCCGAAGGCAGCAGCAGCGGGAGAGCGAGGGAGGCCTCGGGGGCTCCCACTTCTCTCC
AAGGACAATTACTTAGGGGGCACTTCGACCATTCTGACAACGCCAAGGAGTTGTGTAAGGCAGTGTGCGTGTCC
ATGGGCCTGGGTGTGGAGGCGTTGGAGCATCTGAGTCCAGGGGAACAGCTTCGGGGGGATTGCATGTACGCCCCA
CTTTTGGGAGTTCCACCCGCTGTGCGTCCCACTCCTTGTGCCCCATTGGCCGAATGCAAAGGTTCTCTGCTAGAC
GACAGCGCAGGCAAGAGCACTGAAGATACTGCTGAGTATTCCCCCTTCAAGGGAGGTTACACCAAGGGCTAGAA
GGCGAGAGCCTAGGCTGCTCTGGCAGCGCTGCAGCAGGGAGCTCCGGGACACTTGAAGTGCCTGTACCTGTCT
CTCTACAAGTCCGGAGCACTGGACGAGGCAGCTGCGTACCAGAGTCGCGACTACTACAACCTTCCACTGGCTCTG
GCCGGACCGCGCCCCCTCCGCCGCTCCCCATCCCCACGCTCGCATCAAGCTGGAGAACCCGCTGGACTACGGC
AGCCCTGGGCGGCTGCGGCGGCGCAGTGCCGCTATGGGGACCTGGCGAGCCTGCATGGCGCGGGTGCAGCGGGA
CCCGTTCTGGGTACCCCTCAGCCGCGCTTCTCATCTTGGCACACTCTCTTCACAGCCGAAGAAGGCCAGTTG
TATGGACCGTGTGGTGGTGGTGGGGTGGTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG
GCCCCCTACGGCTACACTCGGCCCCCTCAGGGGCTGGCGGGCCAGGAAAGCGACTTCACCGCACCTGATGTGTGG
TACCCTGGCGGCATGGTGAGCAGAGTGCCCTATCCAGTCCCACTTGTGTCAAAGCGAAATGGGCCCCCTGGATG
GATAGCTACTCCGGACCTTACGGGGACATGCGTTTGGAGACTGCCAGGGACCATGTTTTGCCATTGACTATTAC
TTTCCACCCAGAAGACCTGCCTGATCTGTGGAGATGAAGCTTCTGGGTGTCACTATGGAGCTCTCACATGTGGA
AGCTGCAAGGTCTTCTTCAAAGAGCCGCTGAAGGGAAACAGAAGTACCTGTGCGCCAGCAGAAATGATTGCACT
ATTGATAAATTCCGAAGGAAAAATTGTCACTTGTGCTCTTCGGAAATGTTATGAAGCAGGGATGACTCTGGGA
GCCCCGAAGCTGAAGAACTTGGTAATCTGAAACTACAGGAGGAAGGAGAGGCTTCCAGCACCACCAGCCCCACT
GAGGAGACAACCCAGAAGCTGACAGTGTACACATTGAAGGCTATGAATGTCAGCCCATCTTTCTGAATGTCTTG
GAAGCCATTGAGCCAGGTGTAGTGTGTGCTGGACACGACAACAACAGCCCGACTCCTTTGCAGCCTTGCTCTCT
AGCCTCAATGAACTGGGAGAGAGACAGCTTGTACACGTGGTCAAGTGGGCCAAGGCCTTGCTGGCCTCCGCAAC
TTACACGTGGACGACCAGATGGCTGTCACTTCACTCTCTGGATGGGGCTCATGGTGTGTTGCCATGGGCTGGCGA
TCCTTCACCAATGTCAACTCCAGGATGCTCTACTTCGCCCCGATCTGGTTTTCAATGAGTACCGCATGCACAAG
TCCCGGATGTACAGCCAGTGTGTCCGAATGAGGCACCTCTCTCAAGAGTTGGATGGCTCCAAATCACCCCCAG
GAATTCCTGTGCATGAAAGCCATGCTACTCTTCAGCATTATTCAGTGGATGGGCTGAAAAATCAAAAAATCTTT
GATGAACTTCGAATGAACTACATCAAGGAACTCGATCGTATCATTGCATGCAAAAGAAAAATCCCACATCCTGC
TCAAGACGCTTCTACCAGCTCACCAAGCTCCTGGACTCCGTGCAGCCTATTGCGAGAGAGCTGCATCAGTTCACT
TTTGACCTGCTAATCAAGTCACACATGGTGAGCGTGGACTTTCGGGAAATGATGGCAGAGATCATCTCTGTGCAA
GTGCCCAAGATCTTTCTGGGAAAGTCAAGCCCATCTATTTCCACACCCAGTGAAGCATTGGAACCCATTTTCC
CCACCCAGCTCATGCCCCCTTTCAGATGTCTTCTGCCTGTTATAACTCTGCACTACTCCTCTGCAGTGCCTTGG
GGAATTTCTCTATTGATGTACAGTCTGTCTATGAACATGTTCTGAATTCTATCTGCTGGGCTTTTTTTTTCTCT
TTCTCTCTTTCTTTTCTTCTTCCCTCCCTATCTAACCTCCCATGGCACCTTCAGACTTTGCTTCCCATTTGTG
GCTCCTATCTGTGTTTTGAATGGTGTGTATGCCTTAAATCTGTGATGATCCTCATATGGCCAGTGTCAAGTTG
TGCTTGTGTTTACACGCATCTCTGTGCCAGCCACACAAACCGTTTACTTACTTACCGCAAGGGAACCTTAGAGAGCTA
GAATTC

1040/2777
FIGURE 927

MEVQLGLGRVYPRPPSKTYRGAFQNLFQSVREVIQNPGPRHPEAASAAPPGASLLLLQQQQQQQQQQQQQQQQQET
SPRQQQQQQGEDGSPQAHRRGPTGYLVLDDEEQPSQPQSALECHPERGCVPEPGAAVAASKGLPQQLPAPPDEDD
SAAPSTLSLLAPTFFPGLSSCSADLKDILSEASTMQLLQQQQQEAVSEGSSSGRAREASGAPTSSKDNYLGGTSTI
SDNAKELCKAVSVSMGLGVEALEHLSPGEQLRGDCMYAPLLGVPPAVRPTPCAPLAECKGSLDDDSAGKSTEDTA
EYSPFKGGYTKGLEGESLGCSGSAAAGSSGTLELPSTLSLYKSGALDEAAAYQSRDYINFPLALAGPPPPPPPH
PHARIKENPLDYGSAAAAAQCXYGDLASLHGAGAAGPGSGSPSAAASSSWHTLFTAEEGQLYGPCGGGGGGG
GGGGGGGGGEAGAVAPYGYTRPPQGLAGQESDFTAPDVWYPGGMVSRVPYPSPTCVKSEMGPWMDSYSGPYGDMR
LETARDHVLPIIDYYFPPQKTCCLICGDEASGCHYGALTCGSCKVFFKRAAEGKQKYLCA SRNDCTIDKFRKNCPS
CRLRKCYEAGMTLGARKLKKLGNLKLQEEGEASSTTSPTTEETTQKLTVSHIEGYECQPIFLNVLEAIEPGVVCAG
HDNNQPD SFAALLSSLNELGERQLVHVVKWAKALPGLRNLHVDDQMAVIQYSWMGLMVFAMGWR SFTNVNSRMLY
FAPDLVFNEYRMHKSRMYSQCVRMRHLSQEFGLQITPQEFLCMKAMLLFSIIPVDGLKNQKFFDEL RMNYIKEL
DRIIACKRKNPTSCSRRFYQLTKLLDSVQPIARELHQFTFDLLIKSHMVSVD FPEMMAEIIISVQVPKILSGKVKP
IYFHTQ

1041/2777
FIGURE 928

GGAGGTGGGAAGTATCCCGGGCTGGGGGTGGGGGTACGCCGCACAGCTCCAGTCGCCGTCGCGGGCTTCCGGTGCT
AGGTGGAGGGAAGGAAGGAGGGAGCCGGGGAGTGGGCCAGGGCAGCAGCCGGGCTGAAGTCGGCTTGGGGAGCCA
GAGGGAGCGGAGCGGAACCTGCGGGGCAGAGGCGGGCGGCCGAGCGGCGCAGCTGATAGCAGGAACAGGATCAAG
TCTTCCATACCAGGGACCAGGCCAAAACCAGACTGCCACTGCCCTACTTGGGCCCCACTGTCCCCAGAAAGCAG
CTGCTGTGATCATGGGCAATATCTTTGGAAACCTTCTCAAGAGCCTGATTGGGAAGAAGGAGATGCGCATCCTGA
TGGTGGGCTGGATGCCGCAGGAAAGACCACCATCCTATACAAGCTGAAACTGGGGGAGATCGTCAACCACCATCC
CTACCATTGGGTTCATGTGGAGACAGTGGAGTATAAGAACATCAGCTTTACAGTGTGGGATGTGGGTGGCCAGG
ACAAGATTGACCCCTCTGGAGACACTACTTCCAGAACACCCAAGGGTTGATATTTGTGGTGCAGACGAATGATC
GGGAGCGAGTAAATGAGGCCCGGGAAGAGCTGATGAGAATGCTGGCGGAGGACGAGCTCCGGGATGCTGTACTCC
TTGTCTTTGCAAACAAACAGGATCTGCCTAATGCTATGAACGCTGCTGAGATCACAGACAAGCTGGGCCTGCATT
CCCTTCGTCACCGTAACTGGTACATTACAGGCCACCTGTGCCACCAGCGGGGACGGGCTGTACGAAGGCCTGGACT
GGCTGGCCAATCAGCTCAAAAACAAGAAGTGAAGCCAGACAGCCCTAACAAAGCACCCACCCACCCCTGACAT
ACCTACTGTACCCCTGCCCCAGTCTACCCCTTCCTCTCCATGCAAGTGTGGCCAGGGCCCTGGGTATCATGTCC
ACATGCCCAGCAAGAGCCTTGCCCTCCCCCTGCCCTCCCTCTTTTCTGTCCACCTATATGACCAATCCCTAATT
GCTGTCTGATGATGAGTCATTCCAATTTACTGGATTTAAAAACAAAAGTTGTTACGGTTTCATGGGGTGGCCCC
TCTCTCTCTCTCACCTCTGGGTTTCGGGAGGTCGAGTGGGGTATTCTCTTTGTTTGGCAGTGGTTGCTGTCTCT
TGGCATCTGAGTCCTTTCCCTGTCCCCACAAGCCCTTCTACTCCCTGTTTGCCTTTCTTTTGCCACCCTCTCCCT
GTTTTACATGGAAATTGCACGGGCCCTCTCTGTGTTTGCCTGCATGTGTGCGCCTGTATATACATGTATAGAGAGA
TATATTTGTGGGGGCCGGGGGAGCGGGGAGGGGGTGGAGTGAAGCTCAGGGCTTGCCAGCCAGGACACTGCCCCAC
TGGAGCCTGTATCTGCCCCCTTCCGTGTTGGTGAGATTAAGGGAAGAAGGTGGGAGGGCATTAGTCAAGCCGGAC
TGCCCCAGTCTTTGACTGGTTACCCTCCTCTCTGCAGGTAGGTTTTCTGGATGATAGGACAGATGATGGATTCT
TCACCACCATTTTCTTGTACTCTTCTCTCCACCCTTCTTAGGGCTGGAGGATGGCATTATCTCTAGATGACTG
TTCCCAAGGAGATGCCACTCTGCTCTGCCTTACTGTTGGGAAGGAGAGAGGAACCCACTCACTCTTATCAGCTTA
GAGTGTTCAACTGATCCTTCCCCACCATCTTCAGATCTGTTCCCTCTGGAGCTTGACTGGGGGGTGGGGATGGCAA
GTCCATGGTGTGTGTTAGGGACCCAGGGCATTGGGGGAAGGGAGGCGAAGGCCTGAGGTTTTCCATCTTCATTCT
CTTTTGTTATTAGGAGAAGGTGAGGCATGGGGCAATCCCATTCCTGCCTTCCAGTGCCCCACCACCCCTTCTGATC
TTAGGGGTGGATGGGTCTGTCTTGGTCCAGATTTTCTCACCCCTAGTACTCTACTGGCCTGACCAGGGCT
GACTGGGTATTCTAATGAGGAGCTGGGAAGTGGGGTGACATAGCTGACCTTAGTATCAACCCCCCTCTTCTCCAA
CTCTTGTTTTCTAGTCCAGGATATGCTAAAGGACGAAGATTTTCTATTGTTTCCAGGCCCTCAGACCATCCTTGC
TGTCCTTACCCCTCCATGCCCCCTGCCATCCTCACTCACTTCTCATAAATGGATCTGGGGGTTAGAGTGGAGGAA
ATAAAATCCTGAAGTGGTTGTGAGTGCTTGTGGGATGCAGTGGTCTTCAGGATTCTCCCCGCATTATTATGTAGT
TGTTCCAGAAGCTGTTGCTACTGCGTCTCTGTCTGTCAGGGGGCACTTGTTCCCTGAGGTCTCGCCTGGGTCCCTG
ACTTCTGTAGTTTCTGTGAAGACGTGGCTGTCTGTGGGCTCCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT
AGCTGCCCATAACCTGCTAAGGTCAGGGCCCCAGGGCCCCCACAGCATGGCTGAGGGACCCCTTCCAGTAGGGC
TGTCCTCAAGCCCCACTCCATGGGGCCAGGTTTCTGGCCACTTTTGTGATAGCAGATGGATCAATATTAGTAAC
CCCATCCAAGATTGAACTGTGAAAGAGAGGTTCCAGGGGTATCTCCCTCAGTGCCAGTTACTTAGTGATGTGTTA
CCCAGGATGCAGCAGGTGTGTGCAGGTATCTTGCTCTCTAGGCCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT
GTGTGGGTGTGTTTGTGTGTGGTGGTTGTGGGGGGGGTGTGGAGGTTCTATTTCAATTAATAATGATTCAATT
CCCTGGCCCCACAGATGCTTCCCTCCATACTTTTTATTGTCTGTGTTCCCTCAGATTTATTTGTCTTGCCCCAT
TGCCCTCTCCTTCTTGAACCTTTTCCCTTTCAATCTCAACTCATTCACTGCTGTTGCTCATTGCCCCCTTTCCAT
GTATTTTTTCTACTTAGGATTTTCCACTCTATCTTTGTGGTTCATGAGGACTTTGCCTCTTCTCCTGCCTCATT
CCCTGACTTTCTCTAGTTAGATGTCAGTCCTAAATAGGTTTTCTCACTTCAGGCCTCACCCCTCACCTTGTTTT
TTTGGGGGCTCCAGGGACCAATCTGGGGCTGGAAATGTTAGGAGGTTGCCTTGGTGCTGCCCCAGATCTGTCCAG
CAGGGGGCAGTAAGTGATCTTGGTAGTATCCCTGGCTGCTAAGCCCTTGGCAGGGGTGGTCTTTCTACATTCCC
ATTCACTTAACAGCTCTTTTGGGATTGGGTGTTTCAATCCATTTCTGCCACTCCCTCTCCTCTCCTCTCTGGTA
GGTTTAATTTTATGCTTTCCCTGATTCCAGCTTTCTGCTTCCCTGAGGACTCCCGCTCCCCCACCACAAAGTTTG
TCTGTGGTGTATAGTGGTAAGTGCAGTTCCTCCTCTGGAATGTAGACTGTATATGTTTAATAACTCACCTTCTC
TATCCTTGCTCAAAATGTGGGATAACGCGATGACTGTGACCCTGGTTGGAAATTAACTTGTTTTATGCA

1042/2777
FIGURE 929

MGNIFGNLLKSLIGKKEMRILMVGLDAAGKTTILYKLKLGEIVTTIPTIGFNVETVEYKNISFTVWDVGGQDKIR
PLWRHYFQNTQGLIFVVDSDNRERVNEAREELMRMLAEDEL RDAVLLVFANKQDLPNAMNAAEITDKLGLHSLRH
RNWYIQATCATSGDGLYEGLDWLANQLKNKK

1043/2777
FIGURE 930

CAGCCAGCGCCCGCGATGACTGCCACTCTCCGCCCCCTACCTGAGTGCCGTGCGGGCCACATTGCAGGCTGCCCTC
TGCCTGGAGAACTTCTCCTCCCAGGTTGTGGAACGACACAACAAGCCGGAAGTGGAAGTCAGGAGTAGCAAAGAG
CTCCTGTTACAACCTGTGACCATCAGCAGGAATGAGAAGGAAAAGGTTCTGATTGAGGGCTCCATCAACTCTGTC
CGGGTCAGCATTGCTGTGAAACAGGCTGATGAGATCGAGAAGATTTTGTGCCACAAGTTTCATGCGCTTCATGATG
ATGCGAGCAGAGAACTTCTTTATCCTTCGAAGGAAGCCTGTGGAGGGGTATGATATCAGCTTTCTGATCACCAAC
TTCCACACAGAGCAGATGTACAAACACAAGTTGGTGGACTTTGTGATCCACTTCATGGAGGAGATTGACAAGGAG
ATCAGTGAGATGAAGCTGTCAGTCAATGCCCCGTGCCCGCATTGTGGCTGAAGAGTTCCTTAAGAATTTTTAAACC
ATCTGGCTGGATCTCGTGGCCTTCCCCCTCAGACTACCCATGTCTCCACGAAGGCGTCCTGGAGTCACTCCCCGA
GCAGCGCGGCGGCGGCAGGGAGTTGGGTTGGGGTGGGCATTTGATGCGGGAGGTGGGTGGTGTGCTTGCTAGCTG
GGCAAGAAAGCAGCAGTGGACCTGCCCCAAGGCCACACGTGCCTGGTCAGGCTGGCTTCTGATGTTTCAGTCCCCT
GGGCCGGGACAGATTTTTTTTAACTCTTGAACTTAACTCTGTGCTTGTAACAAAAAAAAAAAAAAAAAAAA

1044/2777
FIGURE 931

MTATLRPYLSAVRATLQAALCLENFSSQVVERHNKPEVEVRSSKELLQPVTISRNEKEKVLIEGSINSVRVSIA
VKQADEIEKILCHKFMRFMMRAENFFILRRKPVEGYDISFLITNFHTEQMYKHKLVDFVIHFMEEDKEISEMK
LSVNARARIVAEFLKNF

1045/2777
FIGURE 932

CCGCAGGCGCTCGGGGTTGGAGCCAGCGACCGTCGGTAGCAGCATGGCTCTCCTCTTTCTCCTACCCCTTGTCAT
GCAGGGTGTGAGCAGGGCTGAGATGGGCACCGCGGATCTGGGGCCGTCCTCAGTGCCTACACCAACTAATGTTAC
AATTGAATCCTATAACATGAACCCATATCGTATATTGGGAGTACCAGATCATGCCACAGGTCCCTGTTTTTACCGT
AGAGGTAAAGAACTATGGTGTTAAGAATTCAGAATGGATTGATGCCTGCATCAATATTTCTCATCATTATTGTAA
TATTTCTGATCATGTTGGTGATCCATCAAATTCCTTTGGGTCAGAGTTAAAGCCAGGGTTGGACAAAAAGAATC
TGCCTATGCAAAAGTCAGAAGAATTTGCTGTATGCCGAGATGGAAAAATTGGACCACCTAAACTGGATATCAGAAA
GGAGGAGAAGCAAAATCATGATTGACATATTTACCCTTCAGTTTTTGTAAATGGAGACGAGCAGGAAGTCGATTA
TGATCCCGAAACTACCTGTTACATTAGGGTGTACAATGTGTATGTGAGAATGAACGGAAAGTGAGATCCAGTATAA
AATACTCACGCAGAAGGAAGATGATTGTGACGAGATTTCAGTGCCAGTTAGCGATTCCAGTATCCTCACTGAATTC
TCAGTACTGTGTTTCAGCAGAAGGAGTCTTACATGIGTGGGGTGTTACAACCTGAAAAGTCAAAAAGAAGTTTGTAT
TACCATTTTTCAATAGCAGTATAAAAGGTTCTCTTTGGATTCCAGTTGTTGCTGCTTTACTACTCTTTCTAGTGCT
TAGCCTGGTATTTCATCTGTTTTTATATTAAGAAAATTAATCCATTGAAGGAAAAAGCATAATATTACCCAAGTC
CTTGATCTCTGTGGTAAGAGTGCTACTTTAGAGACAAAACCTGAATCAAAATATGTATCACTCATCACGTCATA
CCAGCCATTTTCCCTAGAAAAGGAGGTGGTCTGTGAAGAGCCGTTGTCTCCAGCAACAGTTCAGGCATGCATAC
CGAAGACAATCCAGGAAAAGTGGAACATACAGAAGAACTTTCTAGTATAACAGAAGTGGTGACTACTGAAGAAAA
TATTCCTGACGTGGTCCCGGGCAGCCATCTGACTCCAATAGAGAGAGAGAGTTCTTCACCTTTAAGTAGTAACCA
GTCTGAACCTGGCAGCATCGCTTTAACTCGTATCACTCCAGAAATTGTTCTGAGAGTGATCACTCCAGAAATGG
TTTTGATACTGATTCCAGCTGTCTGGAATCACATAGCTCCTTATCTGACTCAGAAATTTCCCCCAAATAATAAGG
TGAAATAAAACAGAAGGACAAGAGCTCATAACCGTAATAAAAGCCCCCACCTCCTTTGGTTATGATAAACCA
TGTGCTAGTGGATCTACTTGTGGATGATAGCGGTAAAGAGTCCTTGATTGGTTATAGACCAACAGAAGATTCCAA
AGAATTTTCATGAGATCAGCTAAGTTGCACCAACTTTGAAGTCTGATTTTCTGACAGTTTTCTGCTTTAATTT
CATGAAAAGATTATGATCTCAGAAATTGTATCTTAGTTGGTATCAACCAAATGGAGTGACTTAGTGTACATGAAA
GCGTAAAGAGGATGTGTGGCATTTCACTTTTGGCTTGTAAGTACAGACTTTTTTTTTTTTTTAAACAAAAAAA
GCATTGTAACCTTATGAACCTTTACATCCAGATAGGTTACCAGTAACGGAACATATCCAGTACTCCTGGTTCCTAG
GTGAGCAGGTGATGCCCCAGGGACCTTTGTAGCCACTTCACTTTTTTCTTTCTCTGCCTTGGTATAGCATATG
TGTTTTGTAAAGTTTATGCATACAGTAATTTAAGTAATTTCAGAAGAAATTCTCGAAGCTTTTCAAAATTGGACT
TAAATCTAATTCAACTAATAGAATTAATGGAATATGTAAATAGAAACGTGTATATTTTTTATGAAACATTACA
GTTAGAGATTTTTAAATAAAGAATTTTAAACTC

1046/2777
FIGURE 933

MALLFLLPLVMQGVSRAMGTADLGPSSVPTPTNVTIESYNMNP IVYWEYQIMPQVPVFTVEVKNYGVKNSEWID
ACINISHHYCNISDHVGDPNSLWVRVKARVGQKESAYAKSEEFVAVCRDGKIGPPKLDIRKEEKQIMIDIFHPSV
FVNGDEQEVDYDPETTCYIRVYNVYVRMNGSEIQYKILTQKEDDCDEIQCQLAIPVSSLNSQYCVSAEGVLHVWG
VTTEKSKEVCITIFNSSIKGSLWIPVVAALLLFLVLSLVFICFYIKKINPLKEKSIILPKSLISVVR SATLETKP
ESKYVSLITSYQPFSLKEVVC EEPLSPATVPGMHTEDNPGKVEHTEELSSITEVVTTEENIPDVVPGSHLTPIE
RESSSPLSSNQSEPGSIALNSYHSRNCSESDHSRNGFDTDSSCLES HSSLSDSEFPNNKGEIKTEGQELITVIK
APTSFGYDKPHVLVDLLVDDSGKESLIGYRPTEDSKEFS

1047/2777
FIGURE 934

GGGGAGAATCTGGTGGATGCTGGACCTTGCTGCTGCTGCTACTGCTGTTTCCAGGGGCTGCAGAGCATGGACTGT
TAAATCTTGCACTTCTTCTGAGTGAGCTGAATTCTTGCCGCCAGGATGGGGAAACAGAACAGCAAGCTGCGCCCG
GAGGTCATGCAGGACTTGCTGGAAAGCACAGACTTTACAGAGCATGAGATCCAGGAATGGTATAAAGGCTTCTTG
AGAGACTGCCCCAGTGGACATTTGTCAATGGAAGAGTTTAAAGAAAATATATGGGAACTTTTTCCCTTATGGGGAT
GCTTCCAAATTTGCAGAGCATGTCTTCCGCACCTTCGATGCAAATGGAGATGGGACAATAGACTTTAGAGAATTC
ATCATCGCCTTGAGTGTAACCTTCGAGGGGGAAAGCTGGAGCAGAAGCTGAAATGGGCCTTCAGCATGTACGACCTG
GACGGAAATGGCTATATCAGCAAGGCAGAGATGCTAGTGATCGTGACGGCAATCTATAAGATGGTTTCTCTGTGA
ATGAAAATGCCTGAAGATGAGTCAACCCCAGAGAAAAAGAACAGAAAAGATCTTCCGCCAGATGGACACCAATAGA
GACGGAAAACCTCTCCCTGGAAGAGTTTCATCCGAGGAGCCAAAAGCGACCCGTCCATTGTGCGCCTCCTGCAGTGC
GACCCGAGCAGTGCCGGCCAGTTCTGAGCCCTGCGCCCAACATCGAATTGTAGAGCTGCTTGTGTTCCCTTTTG
ATTCTTCTTTTTAACAATTTTTTTTTTTTTTGGCCAAACAATATCAATGGTGATGCCGTCCCCTGTGCGGTCTGA
TGCGCCTTCCCTCCGTGACGCCTTCAGCCTCTTTTGTCTGGATGCTTCGTGGGAATGCCAGAGCCCCAGTGTGC
TTGTGGAGAGCATGGACAGACTTCGTGGTGTTTCATTGTTTGATGATTTTTAATCGTTACTATTATTTCTTTTTAT
TCTAATGTCTCTGTTCTAAACGTAAGACTCGGGGGTTGGGGCAAAAGAAGGGAAACCCATCCAGTCCCTGTGATT
CTATTGCAAGCTTCAAGGGGCTTTTGTGTTGAAAGACAAAACCTCCACCTGGGTCTGTTGTACACGTGCCGTAG
GGGTGATGGATGGCACCAGGATGCTGGATTCCCCAAGAACAAGTTACCCTCTGGGGTGAGGCTATTCCAGCGAGCT
GGGACATTTCCCATGGGGGGCCACTCCCTCTCTTCCCCAGCAGGCTGTAGTTTCTAAGCTGTGAACATTTCAA
GATAAATTAACAGAGGAGAGGAAAAAGATGGCTCAGCTATTTTTTTCACAGGTTTACACTAGTTGAGCTAATATGC
GTGTCTTTGGAAATTAACACAAATGGTAACATATCCAAAACCAGACCCATCTTGTGCTTATTGTGATAAAAT
AAAAAGACGGCTGTATATAACATATTGGGTAATGCAGACCAAATTAAGTGTGTTTGCCTTGTGTTAAATGAAATGCA
TGTTTAGTGAGCACTAATAACAATCTTATTCCAGAAGACTGTTTTTAGTAGCTTATTGTGAAGTAAGACAACATA
ATGAATGTCTGTCTTGTGTTGGAAGTCATATCTGTCTTTGCACAAATGTACCAATCGACAAGTATATTTATATAT
TCCATAAAAATACAAAGTAACCTGACTAGGGCCCCAACTTTAATTTTGAATGCATTTCCAGAGTGGCCATGCCTA
GAGGGCAGATGCAGAGCAGGTGGTAGTGGGACAGGACAATTGGAGCACAGGAATGTTAACATGTATGACAGGGGA
CCAGTAGGGTGGTTTTCCCTCTCAGGCCCAGCAGCCCATTGACAGCATTAGACTGGCGGCATGGTGCTTTTCTGAG
CAGATCAATACTCTGCAGACTCGAAAAACATCACATACATTCTTGGAACCTCCAGTGGTTTTAATCTATGTGCA
TGGTTAGGGAGCCAGGCCTGGAATATTCAGTTTCCCTGCCCCCTGTTAAAGAATCAGAGGTTGGGCAGTCATCAAA
TTCATCATAAAGACATGGGCAAGTGTGTCTGTGGTTTCCAAGGCCCCCTATGGAGAATCCAAAAGTATTTTCCA
TTGCCGTGCTCTTTGAATGCAGACTTCTATTTCCAGAAGTGACAGCACAAAGTCTGAGTTGCTGTTTTGGTCTGGTG
ACCTCAGACACACTAATTTGAATTGAAAGCTAAGAGTAAAAATTTGCTGGTTACAGGCGAGTCATACTCTTGCAA
GTAGTTAGCAAAGGGAGGCCCAAATTCCTCAAGGTTGTTGATGGGGAACCTTGCCACTAAGAGAAGGCAGAGAGGTC
CCTAGTGGGTATATTTGCTGCCAAGCCACTTGCCAAAGAAGAGGAACCCAGAAAGAGAGACATCATGACCAGGA
GAAAAATGTGACTAGACATGCTAACCTCCAGGTTTTTATATATGACTTGAGTCTGCTGTAATTGGCAGCAGAAAT
CCAAATTTGTATGGTAGACCAAAAAGAACCAAATCCATAGGGTGAAATTTTGAGACCTAGACTCTGTAAAAATAA
TCCTAGTCTTCCCTCCAGGGGTGAGTTCCCTCAGAGTGTTCTGTACCAAACTTGCCAAATTCCTCCATGGCCAAG
TGTTAAAAATCTGTGTTTTGGAAAAATAGCGAATTAACCTAAGACACAGAAGGCAGACTGGGTGAGGAGACCTAGCAT
GCCCTATTGGCAGTGCTCAGGAGCTGCATCCCACTTTTCCCTGCTCTGAATCGAAGTCCTAGTTCCCTTCCCTTGA
TTCTCCTTTGGTAGGTGGAATCAGTTAATGTTTTGAGAAACCTGCCTGGGCTCTGCCCTTAGTCATGACATCTCG
CTGAGCCAGACCCACTCTGTTCCCTTGAACCTAGAGCTGGAGTGAGGAGTAGAGGTCTCCGGCTATTCCAGAAAG
AAAAGTGAGCCACATGCAGGCTGATGAATGCCGACACTTCAGAATGTATAGAAATAGTCCCTGTCTGCTGGCCTGC
CACTGACCCTGTCTGTATTTTCTCGGAGGTTGTTTTCTCCTTCTCCTTCCAGGAAGGTCTTTGTATGTGGAAT
CCAGTGCACCTCAAGTTTGGCCAAGGGACTCCACAGCACCAGAGGACTGCATGCCTCAAGGTTTATGTCACTCCT
CTGCTGGGCTGTTTCAATTGTCAATTGCTGTGTTCAAGGACCTTTGGAAATAAAACCTGTTCTGTCCCAATAAAACC
AGCCTGTGATGTTCAAGGGACTGGAATAAAGTGGCTTACGACCTGAAGGATTCTAAAAAAAAAAAAAAAAAAAAA

1048/2777
FIGURE 935

MGKQNSKLRPEVMQD LLESTDFTEHEIQEWYKGFLRDCPSGHL SMEEFKKIYGNFFPYGDASKFAEHVFRTFDAN
GDGTIDFREFII ALSVTSRGKLEQKLKWF SMYDLGNGYISKAEMLVIVQAIYKMVSSVMKMPEDESTPEKRTE
KIFRQMDTNRDGKLSLEEFIRGAKSDPSIVRLLQCDPSSAGQF

1049/2777
FIGURE 936

ATGGGCGGGGCGCGGCTCGGAGCGCGAAACATGGCGGGGCAGGACGCTGGCTGCGGCCGTGGCGGCGACGACTAC
TCAGAGGACGAGGGCGACAGCAGCGTGTCCAGGGCGGCTGTGGAGGTGTTGCGGAAGCTGAAGGACCTAAACTGC
CCCTTCCTCGAGGGTCTGTATATCACAGAGCCAAAGACAATTCAGGAAGTGTGTGCAGCCCCCTCAGAGTACCGC
TTGGAGATCCTAGAGTGGATGTGTACCCGGGTCTGGCCCTCACTGCAGGACAGGTTAGCTCACTGAAAGGGGTC
CCAACAGAGGTGAAGATCCAAGAAATGACGAAGCTGGGCCACGAGCTGATGCTGTGTGCGCCAGATGACCAGGAG
CTCCTCAAGGGCTGTGCCTGCGCCCAGAAGCAGCTACACTTCATGGACCAGTTGCTCGATAACCATCCGGAGCCTG
ACCATTGGGTGCTCCAGTTGCTCGAGCCTGATGGAGCACTTCGAGGACACCAGGGAGAAGAACGAGGCCTTGCTG
GGGGAGCTCTTCTCTAGCCCCACCTGCAGATGCTCCTGAATCCAGAGTGCGACCCGTGGCCCCCTGGACATGCAG
CCCCCTCCTCAACAAGCAGAGTGATGACTGGCAGTGGGCCAGTGCCCTTGCCAAGTCCGAGGAGGAGGAGAAGCTG
GCGGAGCTTGCCAGGCAGCTGCAGGAGAGTGCTGCCAAGTTGCACGCGCTTAGAACGGAGTCTACGACGACGAGC
TGGGCGAGTGCTGCCAGCGCCCAGGCCCTGACCTCCACCCGTGCGGCCCATCATCCAGGCCACGCACCAGAATC
TGACTTCCTACAGCCAACTGCTGCAAGTGGTTCATGGCAGTTGCTGACACCTCTGCGAAGGCCGTGGAGACCGTGA
AGAAGCAGCAAGGCGAGCAGATCTGCTGGGGTGGCAGCAGCTCCGTTCATGAGTCTAGCTACCAAGATGAATGAAC
TAATGGAGAAATAGAAAGTCTTCAGTGATGGCCTACGCCAAAGCACAGGATGGGGCGGGCAGGAAGCCCTCTCCC
AAGATCGAGTTGGCCGAGGATGGATGATTGTGGCAGCAGAAGCCGTTGCAGCCCCACGTTGTGCTCTAGTTTGAG
GACTTGCTATCCCCGTGGGAACATCACCATGTCCGAGGCACCCCGGGCCGAGACCTTTGTCTTCCTGGACCTGGA
AGCCACTGGGCTCCCCAGTGTGGAGCCCAGATTGCCGAGCTGTCCCTCTTTGCTGTCCACCGCTCCTCCCTGGA
GAACCCGGAGCACGACGAGTCTGGTGCCCTAGTATTGCCCGGGTCTTGACAAGCTCACGCTGTGCATGTGCCC
GGAGCGCCCTTCACTGCCAAGGCCAGCGAGATCACCGCCTGAGCAGTGAGGGCCTGGCGCGATGCCGGAAGGC
TGGCTTTGATGGCGCCGTGGTGCGGACGCTGCAGGCCCTTCTGAGCCGCCAGGCAGGGCCCATCTGCCTTGTTGGC
CCACAATGGCTTTGATTATGATTTCCCCCTGCTGTGTGCCGAGCTGCGGCGCCTGGGTGCCCGCCTGCCCCGGGA
CACTGTCTGCCTGGACACGCTGCCGGCCCTGCGGGGCCCTGGACCGCGCCCACAGCCACGGCACCCGGGCCCCGGG
CCGCCAGGGTTACAGCCTCGGCAGCCTCTTCCACCGCTACTTCCGGGCAGAGCCAAGCGCAGCCCACTCAGCCGA
GGGCGACGTGCACACCCTGCTCCTGATCTTCTGACCGCGCCGAGAGCTGCTCGCCTGGGCCGATGAGCAGGC
CCGTGGGTGGGCCCACATCGAGCCCATGTACTTGCCGCCTGATGACCCAGCCTGGAGGCCTGA

1050/2777
FIGURE 937

MGRAGSPLPRSSWPRMDDCGSRSRCSP TLCSSLRTCYP RGNITMSEAPRAETFVFLDLEATGLPSVEPEIAELSL
FAVHRSSLENPEHDESGALVLP RVLDKLTLCMC PERPFTAKASEITGLSSEGLARCRKAGFDGAVVRTLQAFLSR
QAGPICLVAHNGFDYDFLLCAELRRLGARLP RDTVCLDTLPALRGLDRAHSHGTRARGRQGYSIGSLFHRYFRA
EPSAAHSAEGDVHTLLLIFLHRAAELLAWADEQARGWAHIEP MYLPDDPSLEA

1051/2777
FIGURE 938

AAACCAGAGCATCAGGGAAATGATAGGATGCTGTGGACTAAATGTCCGTTTTTCTCCCTGTTTTTCATTCTCCATGA
CACCTTCCCCTGTTGCACAGGATCTGGCAAGTCTGAAAATCCCTGAGCAATTCGACATGCGATCTGGAAGGGCA
TCCTGGACCACCGGCAGCTCCACGAATTCTCCTCCCCTTCTCATCTCCTGCGGACCCCAAGCAGTGCCCTCTACAG
TCAGTGTGGGCTCCAGTGAGACCCGGGGTGAGCGTGTATTGATGCTGTGCGATTACCCTCCGCCAGACCATCT
CTTTCCCACCCCGAGATGAGTGGAATGACTTCAACTTTGACATGGATGCTCGCCGCAATAAGCAACAGCGCATCA
AAGAGGAGGGGGAGTGAGCCTCACCATGTGAGCTCTTCCTATCCCTCTCCTAACTGCCAGCCCCCTAAAAGCACT
CCTGCTTAATCTTCAAAGCCTTCTCCCTAGCTCCTCCCCTTCTCTTGTCTGATTTCTTAGGGGAAGGAGAAGTA
AGAGGCTACCTCTTACCTAACATCTGACCTGGCATCTAATTCTGATTCTGGCTTTAAGCCTTCAAAA

1052/2777
FIGURE 939

TCACCATGAATTCACTCAGTGAAGCCAACACCAAGTTCATGTTTCGATCTGTTCCAACAGTTCAGAAAAATCAAAAG
AGAACAACATCTTCTATTCCCCTATCAGCATCACATCAGCATTAGGGATGGTCCTCTTAGGAGCCAAAGACAACA
CTGCACAACAAATTAGCAAGGTTCTTCACTTTGATCAAGTCACAGAGAACACCACAGAAAAAGCTGCAACATATC
ATGTTGATAGGTCAGGAAATGTTTCATCACCAGTTTCAAAGCTTCTGACTGAATTCAACAAATCCACTGATGCAT
ATGAGCTGAAGATCGCCAACAAGCTCTTCGGAGAAAAGACGTATCAATTTTACAGGAATATTTAGATGCCATCA
AGAAATTTTACCAGACCAGTGTGGAATCTACTGATTTTGCAAATGCTCCAGAAGAAAGTCGAAAGAAGATTAACT
CCTGGGTGGAAAGTCAAACGAATGAAAAAATTAAAAACCTATTTCTGATGGGACTATTGGCAATGATACGACAC
TGGTTCCTTGTAACGCAATCTATTTCAAAGGGCAGTGGGAGAATAAATTTAAAAAAGAAAACTAAAGAGGAAA
AATTTTGGCCAAACAAGGATGTACAGGCCAAGGTCTGGAAATACCATACAAAGGCAAAGATCTAAGCATGATTG
TGCTGCTGCCAAATGAAATCGATGGTCTGCAGAAGCTTGAAGAGAACTCACTGCTGAGAAATTGATGGAATGGA
CAAGTTTGCAGAATATGAGAGAGACATGTGTGATTTACACTTACCTCGGTTCAAATGGAAGAGAGCTATGACC
TCAAGGACACGTTGAGAACCATGGGAATGGTGAATATCTTCAATGGGGATGCAGACCTCTCAGGCATGACCTGGA
GCCACGGTCTCTCAGTATCTAAAGTCCTACACAAGGCCTTTGTGGAGGTCAGTGAAGAGGAGTGGAGCTGCAG
CTGCCACCGCTGTAGTAGTAGTCGAATTATCATCTCCTTCAACTAATGAAGAGTTCTGTTGTAATCACCCTTTCC
TATTCTTCATAAGGCAAAATAAGACCAACAGCATCCTCTTCTATGGCAGATTCTCATCCCCATAGA

1053/2777
FIGURE 940

MNSLSEANTKFMFDLFQQFRKSKENNIFYSPISITSALGMVLIGAKDNTAQQISKVLHFDQVTENTTEKAATYHV
DRSGNVHHQFQKLLTEFNKSTDAYELKIANLFGKTYQFLQEYLDAIKKFYQTSVESTDFANAPEESRKKINSW
VESQTNEKIKNLFPDGTIGNDTTLVLVNAIYFKGQWENKFKKENTKEEFKWPNKDVQAKVLEIPYKGKDLSMIVL
LPNEIDGLQKLEEKLTAEKLEWTSLQNMRETCVDLHLPRFKMEESYDLKDTLRTMGMVNIFNGDADLSGMTWSH
GLSVSKVLHKAFVEVTEEGVEAAAATAVVVVVELSSPSTNEEFCCNHPFLFFIRQNKTNSILFYGRFSSP

1054/2777
FIGURE 941

GGCACGAGGGAAGGCCCTGGGCACCCTGGGCATGACGACAAATGAAAAGGGCCAGGTCGTGACCAAGACAGCACT
CCTGAAGCAGATGGAAGAGCTGATCGAGGAGCCTGGCCTCACGTGCTGCATCTGCAGGGAGGGATACAAGTTCCA
GCCCACAAAGGTCCTGGGCATTTATACCTTCACGAAGCGGGTAGCCTTGGAGGAGATGGAGAATAAGCCCCGGAA
ACAGCAGGGCTACAGCACCGTGTCCCACTTCAACATTGTGCACTACGACTGCCATCTGGCTGCCGTGAGGTTGGC
TCGAGGCCGGGAAGAGTGGGAGAGTGCCGCCCTGCAGAATGCCAACACCAAGTGCAACGGGCTCCTTCCGGTCTG
GGGACCTCATGTCCCTGAATCAGCTTTTGCCACTTGCTTGGCAAGACACAACACTTACCTCCAGGAATGTACAGG
CCAGCGGGAGCCACGTATCAGCTCAACATCCATGACATCAAACCTGCTCTTCCTGCGCTTCGCCATGGAGCAGTC
GTTACGCGCAGACACTGGCGGGGGCGGCCGGGAGAGCAACATCCACCTGATCCCGTACATCATTACACTGTGCT
TTACGTCCTGAACACAACCCGAGCAACTTCCCGAGAAGAGAAGAACCTCCAAGGCTTTCTGGAACAGCCCAAGGA
GAAGTGGGTGGAGAGTGCCTTTGAAGTGGACGGGCCCTACTATTTACAGTCTTGGCCCTTCACATCCTGCCCCC
TGAGCAGTGGAGAGCCACACGTGTGGAATCTTGCGGAGGCTGTTGGTGACCTCGCAGGCTCGGGCAGTGGCTCC
AGGTGGAGCCACCAGGCTGACAGATAAGGCAGTGAAGGACTATTCGCTTACCGTTCTTCCCTTCTCTTTGGGC
CCTCGTCGATCTCATTTACAACATGTTAAGAAGGTGCCCTACCAGTAACACAGAGGGAGGCTGGTCCTGCTCTCT
CGCTGAGTACATCCGCCACAACGACATGCCCATCTACGAAGCTGCCGACAAAGCCCTGAAAACCTTCCAGGAGGA
GTTTCATGCCAGTGGAGACCTTCTCAGAGTTCCCTCGATGTGGCCGGTCTTTTATCAGAAATCACCGATCCAGAGAG
CTTCCTGAAGGACCTGTTGAACTCAGTCCCCCTGACCACCACACAGCAGCTGCGGCGGCGAAGACGAAGCTGGCTT
GCCTTCCACCCTCTGTTCTCCCTCCTTGTCATTAAAGTCCCTCCGCGGGATGCTGCATTGTTACCCCGCCCTCC
CCTCTCTCATTTTTCTTGGTGTGGCTTGGGGTTTTAGGCTTCCTGTTTTATCTCGTGTGTGTGGTGCACCAGCT
ATGAGGTTGTCTGTAAACCAAGCCATCAAAGGGCCTGTACATACCTAGGAGCCATGAGTTGTCCCGGCCAGCTTC
ATACTTGAGTGTGCACATCTTGAGAAATAAACAAGTGACTTAACACAAAAAAAAAAAAAAAAAAAAA

1055/2777
FIGURE 942A

CGAAGGACCTGAAGGAAAGTGAAAAAGTCCAAAGTTTAAAGATGCCAGAGATGCATTTTAAAGACTCCAAAGATATC
CATGCCAGATATTGACCTGAATCTCACAGGTCCAAAAATAAAAGGAGATGTGGATGTTACAGGCCCTAAGGTAGA
GGGAGATCTGAAAGGTCCTGAAGTTGACCTCAAAGGCCCCAAAGTGAGACATTGATGTCCCAGATGTTAATGTTCA
GGGTCCAGACTGGCACCTGAAGATGCCCAAGATGAAAATGCCTAAGTTTCAAGTATGCCTGGCTTCAAAGGAGAGGG
CCCAGATGGTGGATGTGAAGCTGCCCATAGGCTGACATTGATGTCTCAGGACCAAAGTGGACATTGAAGGCCCTG
ATGTTAACATTGAAGGACCAGAGGGAAAGTTGAAAGGGCCTAAGTTCAAGATGCCAGAGATGAATATCAAAGCCC
CCAAGATCTCCATGCCTGATATTGACTTAAACCTGAAAGGACCCAAGTGAAGGGTGATGTGGATGTTTCCCTTCC
TAAAGTGGAAGGTGACCTCAAGGGCCCAGAAGTTGACATCAAGGGCCCAAAGTGGACATTGACGCACCTGATGT
TGATGTTTCATGGCCCAGACTGGCACCTAAAGATGCCCAAGATGAAAATGCCCAAGTTTCAAGTATGCCTGGCTTCAA
AGCAGAGGGCCCTGAAGCTGGAATGTGAACCTGCCCAAGGCTGACGTTGATGTCTCAGGCCCCAAAGTGGATATT
AATGCCCCAGATGTGGGTGTTCAAGGCCCAGACTGGCACCTGAAGATGCCCAAGGTGAAAATGCCCAAGTTTCAAGC
ATGCCTGGCTTCAAAGGAGAGGGCCCAGATGGGGATGTGAAGCTGCCCAAGGCTGACATTGATGTCTCAGGACCC
AAAGTGGACATTGAAGGCCCTGATGTTAACATTGAAGGACCAGAGGGAAAGTTGAAAGGGCCTAAGTTCAAGATG
CCAGAGATGAATATCAAAGCCCCAAGATCTCCATGCCTGATATTGACTTAAACCTGAAAGGACCCAAAGTGAAG
GGTGATGTGGATGTTTCCCTTCCCTAAAGTGGAAGGTGACCTCAAGGGCCCAGAAGTTGACATCAAGGGCCCAAAA
GTGGACATTGACGCACCTGATGTTGATGTTTCATGGCCCAGACTGGCACCTAAAGATGCCCAAGATAAAAATGCCC
AAGATCAGCATGCCTGGCTTCAAAGGAGAAGGTCCAGATGTGGACGTGAACCTGCCCAAGGCTGACATTGATGTC
TCAGGACCGAAAGTGGATGTTGAATGTCCCGATGTGAATATCGAAGGACCTGAAGGAAAGTGGAAAAGTCCAAAG
TTTAAAGATGCCAGAGATGCATTTTAAAGACTCCAAAGATATCCATGCCAGATATTGACCTGAATCTCACAGGTCCA
AAAATAAAAGGAGATGTGGATGTTACAGGCCCTAAGGTAGAGGGAGATCTGAAAGGTCCTGAAGTTGACCTCAAA
GGCCCCAAAGTGGACATTGATGTCCCAGATGTTAATGTTTCAGGGTCCAGACTGGCACCTGAAGATGCCCAAGATG
AAAATGCCCAAGTTTCAAGTATGCCTGGCTTCAAAGCAGAGGGCCCTGAAGTGGATGTGAACCTGCCCAAGGCTGAC
GTTGATGTCTCAGGCCCCAAAGTGGACGTTGAAGGCCCTGATGTTAACATTGAAGGACCAGAGGGAAAGTTGAAA
GGGCCCAAGTTCAAGATGCCAGAGATGAATATCAAAGCCCCCAAGATCCCCATGCCTGACTTTGATTTGCATCTG
AAAGGTCCCAAGGTGAAGGGCGATGTGGATATTTCTCTGCCCAAGTGGAAAGGTGACCTCAAGGGCCCTGAAGTT
GACATCAGGGGTCCCAAAGTGGACATTGATGTCCCGATGTGGGCGTTCAAGGCCCAGACTGGCACCTAAAAATG
CCCAAAGTGAAGATGCCCAAATTCAGCATGCCTGGCTTCAAAGGAGAGGGGCCAGATGTGGATGTGAACCTGCCC
AAGGCTGACCTTGATGTCTCAGGACCCAAAGTGGACATTGATGTTCCAGATGTGAATATCGAAGGCCCAGAGGGA
AAGTTGAAAGGTCCCAAATTCAAAATGCCTGAGATGAACATCAAAGCCCCCAAGATCTCCATGCCTGACATTGAT
CTTAACCTGAAAGGTCCCAAAGTGAAGGGTGACATGGATGTGTCTCTGCCAAAAGTGGAAAGGTGACATGAAAGTT
CCTGACGTGGATATTAAAGGCCCCAAAGTGGATATTAATGCCCCAGATGTGGATGTTCAAGGCCCAGACTGGCAC
CTGAAGATGCCTAAAATAAAAATGCCCAAGATCAGCATGCCTGGCTTCAAAGGAGAAGGTCCAGAAGTGGACGTG
AACCTGCCCAAGGCTGACCTTGACGTCTCAGGACCCAAAGTGGACGTTGATGTTCCAGATGTGAATATTGAAGGT
CCAGATGCGAACTGAAGGGCCCTAAATTCAGATGCCAGAGATGAACATCAAAGCCCCCAAGATCTCCATGCCT
GACTTTGATTTGCATCTGAAAGGCCCTAAGGTGAAAGGAGATGTGGATGTTTCTCTGCCTAAGATGGAAGGTGAT
CTAAAGGGTCCTGAAGTTGACATCAAGGGCCCCAAAGTGGACATTAATGCTCCAGATGTGGATGTTCAAGGCCCA
GACTGGCACCTGAAGATGCCCAAGGTGAAAATGCCCAAGTTTCAAGTATGCCTGGCTTCAAAGGAGAGGGGCCAGAT
GTGGATGTGAACCTGCCCAAGGCTGACCTTGATGTCTCAGGACCCAAAGTGGACATTGATGTTTCTGATGTGGAT
ATCCGAAGGTCCAGAAGGGAACTGAAAGGTCCCAAATTCAGATGCCTGAGATGAGCATCAAAGCCCCCAAGAT
CTCCATGCCTGATATTGACTTAAACCTGAAAGGACCCAAAGTGAAGGGCGATGTGGATGTTACCCTTCCCTAAAGT
GGAAGGTGACCTCAAGGGCCCAGAAGCTGACATCAAGGGCCCCAAAGTGGACATCAACACCCCTGATGTGGATGT
TCATGGCCCAGACTGGCACCTGAAGATGCCCAAGGTGAAAATGCCCAATTCAGCATGCCTGGCTTCAAAGGAGA
AGGTCCAGATGTGGATGTGAACCTGCCCAAGGCTGACATTGATGTCTCAGGACCCAAAGTGGACGTTGATGTTCC
TGATGTGAATATCGAAGGTCCAGATGCGAACTAAAGGGCCCCAAGTTCAAGATGCCTGAGATGAGCATCAAAGC
CCCCAAGATCTCCATGCCTGATATTGACTTAAACCTGAAAGGACCCAAAGTGAAGGGCGATGTGGATGTTACCCT
TCCTAAAGTGGAAGGTGACCTCAAGGGCCCAGAAGCTGACATCAAGGGCCCCAAAGTGGACATCAACACCCCTGA
TGTGGATGTTTCATGGCCCAGACTGGCACCTGAAGATGCCCAAGGTGAAAATGCCCAATTCAGCATGCCTGGCTT
CAAAGGAGAAGGTCCAGATGTGGATGTGAGCCTGCCCAAGGCCGACATCGATGTCTCGGGACCCAAAGTGGACGT

1056/2777
FIGURE 942B

TGATATTCCAGATGTGAATATCGAAGGTCCAGACGCAAACTGAAGGGCCCCAAGTTCAAGATGCCTGAAATAAA
TATCAAAGCTCCCAAGATCTCCATACCTGATGTTGACCTGGATTTGAAAGGACCCAAAGTAAAAGGAGATTTTGA
TGTGTCTGTCCCTAAGGTTGAAGGGACTTTGAAAGGCCCAGAAGTAGATCTTAAAGGTCCACGTCTGGATTTTCA
AGGCCCTGATGCCAACTCAGTGGCCCATCTTTGAAGATGCCATCGCTGGAGATATCTGCTCCTAAAGTAACTGC
TCCTGATGTTGATTTGCATCTCAAGGCACCAAAAATTGGATTTTTCAGGTCCGAAGTTAGAAGGTGGTGAAGTGGA
CCTCAAGGGACCCAAAGTTGAAGCTCCAAGCTTAGATGTACACATGGACAGCCAGATATTAACATCGAAGGGCC
AGATGTTAAATCCCCAAATTTAAGAAACCCAGTTTGGATTTGGGGCAAAAAGCCCCAAAGCTGACATCAAGTC
ACCTTCACTGGATGTCACTGTTCTGAGGCAGAGCTGAACCTTGAGACTCCTGAAATTAGTGTGGTGGCAAGGG
CAAGAAAAGTAAGTTTAAATGCCTAAATTCATATGAGTGGTCCTAAGATTAAGGCCAAAAAACAGGGATTTG
ACCTGAATGTTCTGGGGGTGAAATTGATGCCAGCCTCAAGGCTCCGGATGTAGATGTCAACATCGCAGGGCCGG
ATGCTGCACTCAAAGTCGACGTGAAATCGCCAAAACCAAGAAAACGATGTTTGGAAAAATGTACTTCCCAGATG
TAGAGTTTGACATTAAATCACCTAAATTTAAAGCTGAGGCCCTCTCCCTAGCCCCAACTGGAGGGTGAAGTCC
AGGCACCTGATCTGGAACCTTCTTTGCCAGCGATTACGTCGAAGGTCTTGACATCAAGGCGAAGGCTCCCAAGG
TCAAGATGCCAGATGTGGACATCTCAGTGCCAAAATAGAGGGTGACCTGAAAGGGCCCCAAAGTGCAGGCAAACT
TGGGTGCACCTGACATCAACATCGAAGGCCTAGATGCTAAAGTCAAAACACCGTCTTCGGCATTCTGCCCCCTC
AAGTCTCCATCCCTGATGTGAATGTAACTTGAAAGGACCAAGATAAAGGGTGATGTCCCCAGCGTGGGACTGG
AAGGACCAGATGTAGATCTGCAAGGTCCAGAAGCAAAATTAAGTTCCCAAGTTTTCCATGCCCAAGATCGGCA
TCCCAGGTGTGAAATGGAGGGTGGGGGAGCCGAGGTCCATGCCAGCTACCCTCTCTTGAAGGAGACTTGAGAG
GACCAGATGTTAAGCTCGAAGGGCCCGATGTTTCTCTAAAGGGGCCAGGAGTAGACTTGCCTTCAGTGAACCTCT
CTATGCCAAAAGTCTCTGGGCCTGACCTTGATCTGAACCTTGAAAGGACCAAGTTTGAAGGGAGACCTGGATGCAT
CTGTTCCAGCATGAAGGTGCATGCTCCAGGGCTCAACCTCAGTGGTGTGCGGTGGCAAAATGCAGGTGGGAGGAG
ACGGTGTGAAAGTGCCAGGGATCGATGCCACAACAAAGCTTAACGTTGGGGCACCAGATGTGACACTGAGGGGAC
CAAGCCTGCAGGGAGATCTGGCTGTCTCTGGTGACATCAAATGCCCTAAAGTATCCGTAGGAGCTCCTGATCTAA
GCTTGGAGGCATCCGAAGGCAGCATTAAACTTCCCAAATGAAGCTGCCCAATTTGGCATCTCTACTCCGGGGT
CCGACTTGCACGTCAATGCCAAGGGGCCACAGGTTTCTGGCGAAGTGAAGGGGCCAGGTGTGGATGTGAACCTGA
AAGGGCCTCGGATTTTCAGCACCGAATGTGGACTTTAACTTGGAAGGACCAAAAGTGAAAGGGAGCCTTGGGGCCA
CTGGTGAGATCAAAGGCCCCACTGTCTGGAGGAGGTCTTCCAGGCATTGGTGTTCAGGCCTAGAAGGAAACCTCC
AGATGCCTGGAATTAAGTCTCTGGATGTGATGTGAACCTGCCAGGCGTGAATGTGAAACTCCCCAACTGGGCAGA
TTTCTGGGCCTGAAATCAAAGGTGGTCTGAAAGGTTTCAAGTAGGTTTCCATGGGGCTGCTCCTGATATCAGTG
TGAAGGGGCTGCCTTTAATATGGCATCTCCTGAGTCAGATTTTGGCATCAACTTGAAGGGCCCCAAAATCAAAG
GAGGTGCGGATGTTTTCAGGGGGTGTGAGTGCCCCAGACATCAGCCTTGGTGAAGGGCATTGAGTGTTAAAGGTT
CCGGGGGTGAGTGGAAAGGGACCCCAAGTCTCCTCTGCTCTCAACTTGGACACATCTAAGTTTGTGTTGGGGCCTTC
ATTTCTCAGGACCAAAAGGTGGAAGGAGGTGTGAAAGGAGGTGAGATTGGACTCCAGGCTCCTGGGCTGAGTGTGT
CTGGGCCTCAAGGTCACTTGGAAGTGGATCTGGAAGGTAACATTCCCTAAATGAAGATCCCCAAATTTACCT
TCTCTGGCCGTGAGCTGGTTGGCAGAGAAATGGGGGTGGATGTTCACTTCCCTAAAGCAGAGGCCAGCATCCAAG
CTGGTGCTGGAGACGGCGAGTGGGAAGAGTCTGAAGTCAAAGTGAAGGAGTCCAAGATCAAATGCCCAAGTTTA
ATTTTTCCAAACCTAAAGGGAAAGGTGGTGTCACTGGCTCACCAGAAGCATCAATTTCTGGGTCCAAAGGTGACC
TGAAAAGTTCAAAGGCCAGCCTGGGCTCTCTGGAAGGAGAGGCAGAGGCCGAAGCCTCTTACCAGAAAGGCAAAT
TCTCCTTATTTAAAAGTAAGAAGCCACGGCACCGCTCAAATTCATTAGTGATGAAAGAGAGTTCTCTGGACCTT
CCACCCCGACGGGGACGCTGGAGTTTGAAGGTGGGGAAGTGTCTCTGGAAGGTGGGAAAGTTAAAGGGAAACACG
GGAAGCTGAAATTCGGTACCTTTGGTGGATTGGGGTCAAAGAGCAAAGGTCATTATGAGGTGACTGGGAGCGATG
ATGAGACAGGCAAGTTACAGGGGAGTGGGGTGTCCCTGGCCTCTAAGAAGTCCCGACTGTCTCCTCTTCTAGCA
ATGACAGTGGGAATAAGGTTGGCATCCAGCTTCCCGAGGTGGAGCTGTGAGTTTCCACAAAGAAAGAGTACAGG
CCTTTGTATGTGTGTACATATATATATATAACAAAACATCAGCCTTGGGTGGTGTGTTCTATATAAACTCCA
AAGGGAAACACACCGACTGCCTCAGCAATCATGCAAAGACCTTGCTGGCCCGGTGGCAAGCGCTGAAAAACCGA
CCGCTGTAGGCTCCTGGAACATACAGATAGGTAAAGAGTTCCAAGTTCGTCCAGCCATGTGCAAAAGTCAACA
GATTTTGCTTAAGATTTTATATATATATATTTTTTTTGATTGACTGCTGAGAGCTCCTGTTTACTAAGCAAGCT
TTTGTGTTTATTATCCTCATTTTTTACTGAACATTGTTAGTTTTGGGGTAATGGAAACCCACTTTTTTCATTGTAAT

1057/2777
FIGURE 942C

GACTTTGGGGGCTTTTGTAGTAAGGGTGGGTGGGGTGATGGGTTGCAGACGGAGGTCAGGTCTTCCTCTTTCCT
GAGACTGGATCTGTTCAAACAGCAAACGCCCACAGATGGCCCAGAGGTGGTGGTAGTCAGGGTGTGTGGGTGTTT
TTAGGGTTCTTTAGTGTTGTTTCTTTCACCCAGGGGTGGTGGTCCCAGCCAGTTTGGTGCTGACGGTGAGAGGAA
ATTAGAATCTGTTTGCAAATTGTCCAACCCACCCCTCAACATGAGGGGCTTCCATTTTCTGTGTTTTGTAAGGG
AACTGTTTCCTTCATGCCGCCATGTTCTGATATTAGTTCTGATTTCTTTTAAACAAATGTTATCATGATTAAGA
AAATTTCCAGCACTTTAATGGCCAATTAACTGAGAATGTAAGAAAATTGATGCTGTACAAGGCAAATAAAGCTGT
TTATTAACCTCCGAAAAAAATCTATGTCGGGTGCGGAGAAAGAGGTAATGAAATGGCA

1058/2777
FIGURE 943

MPKVKMPKFSMPGFKGEGPDGDV KLPKADIDVSGPKVDIEGPDVNIIEGPEGKLGPKFKMPKEMNIKAPKISMPDI
DLNLKGPKVKGDVDVSLPKVEGDLKGPEVDIKGPKVDIDAPDVDVHGPDWHLKMPKIKMPKISMPGFKGEGPDVD
VNLPKADIDVSGPKVDVECPDVNIIEGPEGKWKSPKFKMPKEMHFKTPKISMPDIDLNLTGPKIKGDVDVTGPKVEG
DLKGPEVDLKGPKVDIDVPDVNVQGPDWHLKMPKMKMPKFSMPGFKAEGPEVDVNLPKADVDSGPKVDVEGPDV
NIEGPEGKLGPKFKMPKEMNIKAPKIPMPDFDLHLKGPKVKGDVDISLPKVEGDLKGPEVDIRGPKVDIDVPDVG
VQGPDWHLKMPKVKMPKFSMPGFKGEGPDVDVNLPKADLDVSGPKVDIDVPDVNIIEGPEGKLGPKFKMPKEMNIK
APKISMPDIDLNLKGPKVKGDMDVSLPKVEGDMKVPDVIDKGPKVDINAPDVDVQGPDWHLKMPKIKMPKISMPG
FKGEGPEVDVNLPKADLDVSGPKVDVDVPDVNIIEGPDALKLGPKFKMPKEMNIKAPKISMPDFDLHLKGPKVKGDV
DVS LPKMEGDLKGPEVDIKGPKVDINAPDVDVQGPDWHLKMPKVKMPKFSMPGFKGEGPDVDVNLPKADLDVSGP
KVDIDVPDVIDRRSRRETTERSQIQDAEMSIQAPKISMPDIDLNLKGPKVKGDVDVTLPKVEGDLKGPEADIKGPK
VDINTPDVDVHGPDWHLKMPKVKMPKFSMPGFKGEGPDVDVNLPKADIDVSGPKVDVDVPDVNIIEGPDALKLGPK
FKMPKEMSIKAPKISMPDIDLNLKGPKVKGDVDVTLPKVEGDLKGPEADIKGPKVDINTPDVDVHGPDWHLKMPKV
KMPKFSMPGFKGEGPDVDVSLPKADIDVSGPKVDVDIPDVNIIEGPDALKLGPKFKMPEINIKAPKISIPDVDLDL
KGPKVKGDFDVSPKVEGTLKGPEVDLKGPRLD FEGPDALKSGPSLKMP SLEISAPKVTAPDVDLHLKAPKIGFS
GPKLEGGEVDLKGPKVEAPSLDVHMDSPDINIEGPDVKIPKFKPKFGFGAKSPKADIKSPSLDVTVP EAE LNLE
TPEISVGGKGKKSFKMPKIHMSGPKIKAKKTGIDLNVPGGEIDASLKAPDVDVNIAGPDAAALKVDVKSPKTKKT
MFGKMYFPDVEFDIKSPKFKAEAPLPSPKLEGE LQAPDLELSLPAIHVEGLDIKAKAPVKMPDVIDSVPKIEGD
LKGPKVQANLGAPDINIEGLDAKVKTSPFGISAPQVSIPDVNVNLKGPKIKGDVPSVGLEGPVDLQGP EAKIKF
PKFSMPKIGIPGVKMEGGGAEVHAQLPSLEGDLRGPDKLEGPDVSLKGPGVDLPSVNL SMPKVS GPDLDLNLKG
PSLKGDLASVPSMKVHAPGLNLSGVGGKMQVGGDGVKVP GIDATTKLNVGAPDVTLRGPSLQGD LAVSGDIKCP
KVS VGAPDLSLEASEGSIKLPKMKLPQFGISTPGSDLHVNAKG PQVSGELKGPGVDVNLKGPRISAPNVDFNLEG
PKVKGSLGATGEIKGPTVGGGLPGIGVQGLEGNLQMPGIKSSGCDVNLPGVNVKLPTGQISGPEIKGGLKGSEVG
FHGAAPDISVKGPAFNMA SPESDFGINLKGPKIKGGADVSGGVSAPDISLGEGLSVKSGSGGEWKGPQVSSALNL
DTSKFAGGLHFS GPKEGGVKGQIGLQAPGLSVSGPQGHLES GSGKVTFPKMKIPKFTTSGRELVG REMGVDVH
FPKAEASIQAGAGDGEWEESEVKLKSKIKMPKFNFSKPKGKGGVTGSPEASISGSKGDLKSSKASLSLEGEAE
AEASSPKGKFSLFKSKKPRHRSNSFS DEREFS GPSTPTGTLEFEGGEVSLEGGKVKGKHGKLF GTFGGLGSKSK
GHYEVTGSDD ETGKLQSGSVSLASKKSRLSSSSSND SGNKVG IQLPEVELSVSTKKE

1059/2777
FIGURE 944A

CAGGACACGAGGAACTGTTAATGACTTGGGCTTTGGAAGTAGCTGTTGTAATGAAGAAGTCCGAAACATATGCA
CCTTTATTCTGTCTTCCGTCTTTCCATAAATTTTGCAAAGGCCCTTTAGCCGACACTCTCGTTGAAGATGTGAAT
ATCTGTCTGCAGGCATGCAGCAGTCTACATGCTCTATCCTCTTCCCTTGCCAGATGATCTTTTACAGAGATGTGTT
GATGTTTGCCGTGTCCAAC TAGTGACCCGTGGAAC TTGTATTGCAACAAGCATTGGAAGAACTGTTGAAATCAATT
CCTTTAGGTGTTTTCTTAAGCGATAACAATCACACAGAAATTCAAGAAATTTCTTTAGCATTAAAGAAGTCACATG
AGTAAAGCACCAAGTAATACATTCCACCCCCAAGATTTCTCTGATGTTATTAGTTTTATTTTGTATGGGAACCTCT
CATAGAACAGGGAAGGACAATTGGTTGGAAAGACTGTTCTATAGCTGCCAGAGACTGGATAAGCGTGACCAGTCA
ACAATTCCACGCAATCTCCTGAAGACAGATGCTATCCTTTGGCAGTGCGCCATATGGGAAGCTGCACAATTCCT
GTTCTTTCTAAGCTGAGAACCCCACTGGGCAGAGCTCAAGACACCTTCCAGACAATTGAAGGTATCATTGCAAGT
CTCGCAGGTACACATTAAACCCTGATCAGGATGTTAGTCAGTGGAACAACCTGCAGACAGTGATGAAGGCCATGGT
AACAACCAACTTAGACTTGTTCTTCTTCTGCAATATCTGGAAAATCTGGAGAAATTAATGTATAATGCATACGAG
GGATGTGCTAATGCCTTAACCTCACCTCCCAAGGTCATTAGAACTTTTTTGTATACCAATCGCCAACTTGTGAG
GACTGGCTAACGCGGATTGCACTCTCCATCATGAGGGTAGGATTGTTGGCAGGCCAGCCTGCAGTGACAGTGAGA
CATGGCTTTGACTTGCTTACAGAGATGAAAAACAACAGCCTATCTCAGGGGAATGAATTGGAAGTAAGCATTATG
ATGGTGGTAGAAGCACTATGTGAACCTTCAATTGCTCTGAAGCTATACAGGGAATTGCTGTCTGGTCATCATCTATT
GTTGGAAGCACTCTTCTGTGGATTAACTCAGTGCGCTCAACAGGCTGAAGGGAGGTTTGAAAGGCCCTCTGTGGAG
TACCAGGAACACCTGTGTGCCATGACAGGTGTTGATTGCTGCATCTCCAGCTTTGACAAATCGGTGCTCACCTTA
GCCAGTGCTGGGTGTAAGAGTGCCAGCCTGAAACATTGCTCTGAATGGTGAATCCAGAAAAAGTGTGCTGTCCAAA
CCGACTGACTCTTCCCTGAGGTTATAAATTATTTAGGAAACAAAGCATGTGAGTGCTACATCTCAACTGCCGAT
TGGGCTGCTGTGCAGGAATGGCAGAACGCTATCCATGACTTGAAAAAGAGTACCAGTAGCACTTCCCTCAACCTG
AAAGCTGACTTCAACTATATAAAATCATTAAAGCAGCTTTGAGTCTGGAAATTTGTGCAATGTACCGAGCAATTA
GAATTGTTACCAGGAGAAAAATATCAATCTACTTGCTGGAGGATCAAAAGAAAAAATAGACATGAAAAAAGTCTT
CGTAACATGTGAAGTCCAGATCCAAGGGAACCTCAGAAATCCATTGAAGTTCCATTGTTAAGAAGTTCTGTTTGT
TTGGCAACTGCTTTAAACCCGATAGAACAAGATCAGAAGTGGCAGTCTATAACTGAAAATGTGGTAAAGTACTTG
AAGCAAACATCCCGCATCGCTATTGGACCTCTGAGACTTTCTACTTTAACAGTTTCACAGTCTTTGCCAGTTCTA
AGTACCTTGACGTGTATTGCTCGTCTGCTTTGGAGACCACAGTTTCTAACAGACTTTCAACAGAGGACTGTCTT
ATTCCACTCTTCGGCGAAGCTTTACGTTTATGTAAACAGCATGACGTGAGGCCGTGGATGCAGGCATTAAGGTAT
ACTGTGTACCAGAATCAGTTGTTGGAGAAAAATTAAGGTATGATCTCGTGAATCTTGAGAGAACTGAATGACG
AATGAAACTATTGTTCTGTTTACACAGAAGAAAACTGAGGTTGGCACTCATCATGAGCCCTGTTCTCATTCT
GCAATGGTGAAGCTCTCTATTGTCCTGACCCACAGTTCTGTCCCATGACCAGGGCCAGCTCACCAAGGAGCT
GCAGCAGCATGTAAAGTCAGTGACATGCCCATGCGAGTACCTGAGGAAGGTTATCAATACTCTGGCTGACCATCA
TCATCGTGGGACTGACTTTGGTGGAAGTCTTGGTTACATGTCATTATTGCGTTTCCGACAAGTTATAAAGTTGT
CATTACCTCTGGATAGTTTACCTTTGGGTGCTCTCCTGAAGACTATCTTCTGGTCTCGAAATGGACATGATGG
ATCCACGGATGTACAGCAGAGAGCCTGGAGGTCCAACCGCCGTAGACAGGAAGGGCTGAGGTCCATTTGTATGCA
CACAAAGAAAAGAGTTTCTTCTTTTCGAGGAAATAAAATTTGGCCTGAAAGACGTCATTACTCTACGGAGACATGT
GGAAACAAAAGTTAGAGCTAAAATCCGTAAGAGGAAGGTGACAACGAAAATCAACCATCATGACAAAATCAATGG
AAAGAGGAAGACCGCCAGAAAACAGAAAATGTTTCAACGTGCGCAAGAGTTGCGGCGGCGAGCAGAGGACTACCA
CAAATGCAAAATCCCCCTTCTGCAAGAAAAGGCTCTTTGCAACTGGGTGAGAATGGCGGCGAGCGGAGCATCGTCAT
TCTTCAGGATTGCCCTACTGGCCCTACCTCACAGCTGAAACTTTAAAAAACAGGATGGGCCACCAGCCACCTCCT
CCAACCTCAACAACATTCTATAACTGATAACTCCCTGAGCCTCAAGACACCTCCCGAGTGTCTGCTCACTCCCCCT
CCACCCTCAGCGGATGATAATCTCAAGACACCTCCCGAGTGTGTGCTCACTCCCCCTCCACCCTCAGCGGATGAT
AATCTCAAGACACCTCCCGAGTGTGTGCTCACTCCCCCTCCACCCTCAGCGGATGATAATCTCAAGACACCTCCT
GAGTGTCTCCTCACTCCCCCTCCACCCTCAGCGGATGATAATCTCAAGACACCTCCCGAGTGTCTGCTCACTCCC
CTTCCACCCTCAGCTCTACCCTCAGCTCCACCCTCAGCAGATGATAATCTCAAGACACGTGCCGAGTGTCTGCTC
CATCCCCCTCCACCCTCAGCGGATGATAATCTCAAGACACCTTCCGAGCGTCAGTCACTCCCCCTCCACCCTCA
GCTCCACCCTCAGCAGATGATAATCTCAAGACACCTGCCGAGCGTCTGCGGGGGCGCTTCCACCCTCAGCGGAT
GATAATCTCAAGACACCTTCCGAGCGTCAGTCACTCCCCCTCCACCCTCAGCTCCACCCTCAGCAGATGATAAT
ATCAAGACACCTGCCGAGCGTCTGCGGGGGCGCTTCCACCCTCAGCGGATGATAATCTCAAGACACCTTCCGAG

1060/2777
FIGURE 944B

CGTCAGCTCACTCCCCTTCCACCCTCAGCTCCACCCTCAGCAGATGATAATATCAAGACACCTGCCGAGCGTCTG
CGGGGGCCGCTTCCACCCTCAGCGGATGATAATCTCAAGACACCTTCCGAGCGTCAGCTCACTCCCCTTCCACCC
TCAGCTCCACCCTCAGCAGATGATAATATCAAGACACCTGCCGAGCGTCTGCGGGGGCCGCTTCCACCCTCAGCG
GATGATAATCTCAAGACACCTTCCGAGCGTCAGCTCACTCCCCTTCCACCCTCAGCTCCACCCTCAGCAGATGAT
AACATCAAGACACCTGCCCTTCCACCCTCAGCGGATGATAATCTCAAGACACCTTCCGAGCGTCAGCTCACTCCCC
TTCCACCCTCAGCTCCACCCTCAGCAGATGATAATATCAAGATACCTGCTGAGCGTCTGCGGATTCCGCTTCCAC
CATCAGCCGATGATAATCTCAAGACACCTTCCGAGCGTCAGCTCACTCCCCTTCCACCCTCAGCTCCACCCTCAG
CAGATGATAATATCAAGACACCTGCCGAGCGTCTGCGGGGGCCGCTTCCACCCTCAGCGGATGATAATCTCAAGA
CACCTTCCGAGCATCAGCTCACTCCCCTTCCACCCTCAGCTCCACCCTCAGCAGATGATAATATCAAGACACCTG
CCGAGCGTCTGCGGGGGCCGCTTCCACCCTCAGCGGATGATAATCTCAAGACACCTTCCGAGCGTCAGCTCACTC
CCCTTCCACCCTCAGCTCCACCCTCAGCAGATGATAATATCAAGACACCTGCCGAGCGTCTGCGGGGGCCGCTT
CACCTCAGCGGATGATAATCTCAAGACACCTTCCGAGCGTCAGCTCACTCCCCTTCCACACTCAGCTCCACCCT
CAGCAGATGATAATATCAAGACACCTGCCGAGCGTCTGCGGGGAGCGTCTGCGGGGGCCGCTTCCACCCTCAGCG
GATGATAATCTCAAGACACCTTCCGAGCGTCAGCTCACTCCCCTTCCACCCTCAGCTCCACCCTCAGCAGATGAT
AATATCAAGACACCTGCTGAGCGTCTGCGGGGGCCGCTTCCACCCTCAGCGGATGATAATCTCAAGACACCTTCC
GAGCGTCAGCTCACTCCCCTTCCACCCTCAGCTCCACCCTCAGCAGATGATAATATCAAGACACCTGCCGAGCGT
CTGCGGGGGCCGCTTCCACCCTCAGCGGATGATAATCTCAAGACACCTTCCGAGCGTCAGCTCACTCCCCTTCCA
CCCTCAGCTCCACCCTCAGCAGATGATAATATCAAGACACCTGCCGAGCGTCTGCGGGGGCCGCTTCCACCCTCA
GCCGATGATAATCTCAAGACACCTCCCTTAGCTACTCAGGAGGCTGAGGCAGAAAAACCACGCAAACCCAAGAGG
CAGAGGGCGGCTGAGATGGAACCACCTCCCGAACCCAAGAGGCGGAGGGTCGGTGACGTGGAACCGTCACGCAAA
CCCAAGAGGCGGAGGGCCGCTGACGTGGAACCATCATCACCCGAACCCAAGAGGCGGAGGGTCGGTGATGTGGAA
CCGTCACGCAAACCCAAGAGGCGGAGGGCCGCTGACGTGGAACCATCATCACCCGAACCCAAGAGGCGGAGGGTC
GGTGACGTGGAACCGTCACGCAAACCCAAGAGGCGGAGGGCCGCTGACGTGGAACCATCATTACCCGAACCCAAG
AGGCGGAGGTTGAGCTGAGAAGAGGCCAGTGCACTCAAGCCTGAGCAATAAGAATAAAACCGAGTAGAACAAAAT
AAAAAATTCAAAAAACAAAACAAACCCACACTCCAAAACTAACAAAGAATAAATAAATAATATAAAAAAT

1061/2777
FIGURE 945

GTGCGGTTGGGAACGCGGAGCGGACGGATTTCGATTCAACGGGGTTCCGGACCGCGCTGCGCTATGGAGCAGGTCA
ATGAGCTGAAGGAGAAAGGCAACAAGGCCCTGAGCGTGGGTAAACATCGATGATGCCTTACAGTGCTACTCCGAAG
CTATTAAGCTGGATCCCCACAACCACGTGCTGTACAGCAACCGTTCTGCTGCCTATGCCAAGAAAGGAGACTACC
AGAAGGCTTATGAGGATGGCTGCAAGACTGTGACCTAAAGCCTGACTGGGGCAAGGGCTATTACGAAAAGCAG
CAGCTCTAGAGTTCTTAAACCGCTTTGAAGAAGCCAAGCGAACCTATGAGGAGGGCTTAAACACGAGGCAAATA
ACCTTCAACTGAAAGAGGGTTTACAGAATATGGAGGCCAGGTTGGCAGAGAGAAAATTCATGAACCCCTTTCAACA
TGCCTAATCTGTATCAGAAGTTGGAGAGTGATCCAGGACAAGGACACTACTCAGTGATCCTACCTACCGGGAGC
TGATAGAGCAGCTACGAAACAAGCCTTCTGACCTGGGCACGAACTACAAGATCCCCGGATCATGACCACTCTCA
GCGTCCTCCTTGGGGTCGATCTGGGCAGTATGGATGAGGAGGAAGAGATTGCAACACCTCCACCACCACCCCTC
CCAAAAGGAGACCAAGCCAGAGCCAATGGAAGAAGATCTTCCAGAGAATAAGAAGCAGGCACTGAAAGAAAAAG
AGCTGGGGAACGATGCCTACAAGAAGAAAGACTTTGACACAGCCTTGAAGCATTACGACAAAGCCAAGGAGCTGG
ACCCCACTAACATGACTTACATTACCAATCAAGCAGCGGTATACTTTGAAAAGGGCGACTACAATAAGTGCCGGG
AGCTTTGTGAGAAGGCCATTGAAGTGGGGAGAGAAAACCGAGAAGACTATCGACAGATTGCCAAAGCATATGCTC
GAATTGGCAACTCCTACTTCAAAGAAGAAAAGTACAAGGATGCCATCCATTTCTATAACAAGTCTCTGGCAGAGC
ACCGAACCCAGATGTGCTCAAGAAATGCCAGCAGGCAGAGAAAATCCTGAAGGAGCAAGAGCGGCTGGCCTACA
TAAACCCCGACCTGGCTTTGGAGGAGAAGAACAAGGCAACGAGTGTTTTTCAGAAAGGGGACTATCCCCAGGCCA
TGAAGCATTATACAGAAGCCATCAAAAGGAACCCGAAAGATGCCAAATTATACAGCAATCGAGCTGCCTGCTACA
CCAAACTCCTGGAGTTCCAGCTGGCACTCAAGGACTGTGAGGAATGTATCCAGCTGGAGCCGACCTTCATCAAGG
GTTATACACGAAAGCCGCTGCGCTGGAAGCGATGAAGGACTACACCAAAGCCATGGATGTGTACCAGAAGGCGC
TAGACCTGGACTCCAGCTGTAAGGAGGCGGCAGACGGCTACCAGCGCTGTATGATGGCGCAGTACAACCGGCACG
ACAGCCCCGAAGATGTGAAGCGACGAGCCATGGCCGACCCTGAGGTGCAGCAGATCATGAGTGACCCAGCCATGC
GCCTTATCCTGGAACAGATGCAGAAGGACCCCCAGGCACTCAGCGAACACTTAAAGAATCCTGTAATAGCACAGA
AGATCCAGAAGCTGATGGATGTGGGTCTGATTGCAATTCGGTGATGACTTGTTTCATCCCCCTTCCCTTCGCCCT
CATGTGGAAAGAGGAGCTGGGACCGCGGCGAGCAGCACGGAGCGGAAGGGAGAGCAGGGGAGAGAAGGCCTCATC
TCTCTATATTTATACATAACCCCGGGGAAGACACAGAGACTCGTACCTGCGCTGTTTGTGCCGCCGCTGCCTCTG
GGCCCTCCCAGCACACGCATGGTCTCTTACCGCTGCCCTCGAGTTCCATGTCTCTTTCCCTGCCCTAGTTGC
TGTCTCGGCTGCTCTCCCATAGTTGGTTTTTTTTTTTATTTGGGGCAGTGGGCATGTTATGGGGAGGGAGGGGGT
TCTTCCAGCCTCAGGTCCCAGCTGTCTCACGTTGTTTATTCTGCGTCCCCTTCTCCAATAAAACAAGCCAGTTGG
GCGTGTTTATAAC

1062/2777
FIGURE 946

MEQVNELKEKGNKALSVGNIDDALQCYSEAIKLDPHNHVLYSNRSAAYAKKGDYQKAYEDGCKTVDLKPDWGKGY
SRKAAALEFLNRFEEAKRTYEGLKHEANNPQLKEGLQNMEARLAERKFMNPFNMPNLYQKLESDPRTRTLLSDP
TYRELIEQLRNKPSDLGTKLQDPRIMTTLSVLLGVDLGSMDEEEEIATPPPPPPPKKETKPEPMEEDLPENKKQA
LKEKELGNDAYKKKDFDTALKHYDKAKELDPTNMTYITNQAAYFEKGDYNKCRELCEKAIEVGRENREDYRQIA
KAYARIGNSYFKEEKYKDAIHFNKSLAEHRTPDVLKKCQQA EKILKEQERLAYINPD LALEEKNGNECFQKGD
YPQAMKHYTEAIKRNP KDAKLYSNRAACYTKLLEFQLALKDC EECIQLEPTFIKGYTRKAAALEAMKDYTKAMDV
YQKALDLDSSCKEADGYQRCMMAQYNRHDS PEDVKRRAMADFEVQQIMSDPAMRLILEQM QKDPQALSEHLKNP
VIAQKIQKLMDVGLIAIR

1063/2777
FIGURE 947

CTTGTGAGTCTATAACTCGGAGCCGTTGGGTTCGGTTCCTGCTATTCCGGCGCCTCCACTCCGTCCCCCGGGGTC
TGCTCTGTGTGCCATGGACGGCATTGTCCCAGATATAGCCGTTGGTACAAAGCGGGGATCTGACGAGCTTTTCTC
TACTTGTGTCTACTAACGGACCGTTTATCATGAGCAGCAACTCGGCTTCTGCAGCAAACGGAAATGACAGCAAGAA
GTTCAAAGGTGACAGCCGAAGTGCAGGCGTCCCCTCTAGAGTGATCCACATCCGGAAGCTCCCCATCGACGTAC
GGAGGGGGAAGTCATCTCCCTGGGGCTGCCCTTTGGGAAGGTACCAACCTCCTGATGCTGAAGGGGAAAAACCA
GGCCTTCATCGAGATGAACACGGAGGAGGCTGCCAACACCATGGTGAACACTACACCTCGGTGACCCCTGTGCT
GCGCGGCCAGCCCATCTACATCCAGTTCTCCAACCACAAGGAGCTGAAGACCGACAGCTCTCCCAACCAGGCGCG
GGCCCAGGCGGCCCTGCAGGCGGTGAACCTCGGTCCAGTCGGGGAACCTGGCCTTGGCTGCCTCGGCGGCGGCCGT
GGACGCAGGGATGGCGATGGCCGGGCAGAGCCCCGTGCTCAGGATCATCGTGGAGAACCTCTTCTACCCTGTGAC
CCTGGATGTGCTGCACCAGATTTTCTCCAAGTTCGGCACAGTGTGAAGATCATCACCTTCACCAAGAACAACCA
GTTCCAGGCCCTGCTGCAGTATGCGGACCCCCGTGAGCGCCCAGCACGCCAAGCTGTCGCTGGACGGGCAGAACAT
CTACAACGCCTGCTGCACGCTGCGCATCGACTTTTCCAAGCTCACCAGCCTCAACGTCAAGTACAACAATGACAA
GAGCCGTGACTACACAGCCCAGACCTGCCTTCCGGGGACAGCCAGCCCTCGCTGGACCAGACCATGGCCGCGGC
CTTCGCCCTCTCCGTATGCAGGAGCTGGTTTCCCTCCCACCTTTGCCATTCTCTCAAGCTGCAGGCCTTTCCGTTCC
GAACGTCCACGGCGCCCTGGCCCCCTGGCCATCCCTCGGCGGCGGCGGCAGCTGCGGCGGCAGGTTCGGATCGC
CATCCCGGGCCTGGCGGGGGCAGGAAATTCTGTATTGCTGGTCAGCAACCTCAACCCAGAGAGAGTACACCCCCA
AAGCCTCTTTATTCTTTTCGGCGTCTACGGTGACGTGCAGCGCGTGAAGATCCTGTTCAATAAGAAGGAGAACGC
CCTAGTGCAGATGGCGGACGGCAACCAGGCCAGCTGGCCATGAGCCACCTGAACGGGCACAAGCTGCACGGGAA
GCCCATCCGCATCACGCTCTCGAAGCACCAAGCTGCAGCTGCCCCGCGAGGGCCAGGAGGACCAGGGCCTGAC
CAAGGACTACGGCAACTCACCCCTGCACCGCTTCAAGAAGCCGGGGCTCCAAGAATTCCAGAACATATTCCCGCC
CTCGGCCACGCTGCACCTCTCCAACATCCCGCCCTCAGTCTCCGAGGAGGATCTCAAGGTCTGTTTTCCAGCAA
TGGGGGCGTCTGTCAAAGGATTCAAGTCTTTCAGAAAGGACCGCAAGATGGCACTGATCCAGATGGGCTCCGTGGA
GGAGGCGGTCCAGGCCCTCATTGACCTGCACAACCACGACCTCGGGGAGAACCACCACCTGCGGGTCTCCTTCTC
CAAGTCCACCATCTAGGGGCACAGGCCCCACGGCCGGGCCCCCTGGCGACAACCTCCATCATTCCAGAGAAAAG
CCACTTTAAAAACAGCTGAAGTGACCTTAGCAGACCAGAGATTTTATTTTTTTTAAAGAGAAATCAGTTTACCTGT
TTTTAAAAAAATTAAATCTAGTTACCTTGCTCACCTTGCGGTGACAGGGACAGCTCAGGCTCTTGGTGACTGTG
GCAGCGGGAGTTCCCGGCCCTCCACACCCGGGGCCAGACCCTCGGGGCCATGCCTTGGTGGGGCCTGTGTGCGGC
GTGGGGCCTGCAGGTGGGCGCCCCGACCACGACTTGGCTTCCTTGTGCCTTAAAAACCTGCCTTCCTGCAGCCA
CACACCCACCCGGGTGTCTTGGGGACCCAAGGGGTGGGGGGGTACACCAGAGAGAGGACAGGGGGCCTGGCCGG
CTCCTGCAGGATCATGCAGCTGGGGCGCGGCGGCGGCTGCGACACCCCAACCCAGCCCTCTAATCAAGTCA
CGTGATTCTCCCTTACCCCGCCCCAGGGCCTTCCCTTCTGCCCCAGGCGGGCTCCCCGTGCTCCAGCTGCG
GAGCTGGTCGACATAATCTCTGTATTATATACTTTGCAGTTGCAGACGTCTGTGCCTAGCAATATTTCCAGTTGA
CCAAATATTCTAATCTTTTTTTCATTTATATGCAAAAGAAATAGTTTTAAGTAACTTTTTATAGCAAGATGATACA
ATGGTATGAGTGTAATCTAAACTTCCTTGTGGTATTACCTTGATGCTGTTACTTTTATTTTATTCTTGTAAAT
AAGTCACAGGCAGGACCCAGTTTCCAGAGAGCAGGCGGGGCCGCCAGTGGGTGAGGCACAGGGAGCCCCGGTCC
TATCTTAGAGCCCCTGAGCTTCAGGGAAGGGGCGGGCGTGTGCGCCGCTCTGGCATCGCTCCGGTTGCCTTACA
CCACGCCTTCACCTGCAGTCGCTAGAAAACCTTGCTCTCAAACTTCAGGGTTTTTTCTTCTTCAAATTTTGGAC
CAAAGTCTCATTCTGTGTTTTGCTGCTGATGCTGGGACCCGGAAGGCGGGCGCTCCTCCTGTCTTCTCTG
TGCTCTTTCTACCGCCCCGCGTCTGTCCCGGGGGCTCTCCTAGGATCCCCTTTCCGTAAAAGCGTGTAACAAG
GGTGTAATATTTATAATTTTTTATACCTGTTGTGAGACCCGAGGGGCGGCGGCGCGGTTTTTTATGGTGACACA
AATGTATATTTTGCTAACAGCAATTCCAGGCTCAGTATTGTGACCGCGGAGCCACAGGGGACCCACGCACATTC
CGTTGCCCTTACCCGATGGCTTGTGACGCGGAGAGAACCGATTAAAACCGTTTGAGAACTCCTCCCTTGTCTAGC
CCTGTGTTGCTGTGGACGCTGTAGAGGCAGGTTGGCCAGTCTGTACCTGGACTTCGAATAAATCTTCTGTATCC
TCGCTCCGTTCCGCCTTAAA

A

1064/2777
FIGURE 948

MDGIVPDIAVGTKRGSDELFSTCVTNGPFISSNSASAANGNDSKKFKGDSRSAGVPSRVIHIRKLPIDVTEGEV
ISLGLPFGKVTNLLMLKGKNQAFIEMNTEEAANTMVNYTTSVTPVLRGQPIYIQFSNHKELKTDSSPNQARAQAA
LQAVNSVQSGNLALAASAAAVDAGMAMAGQSPVLRRIIVENLFYPVTLDDLHQLFSKFGTVLKIITFTKNNQFQAL
LQYADPVSAQHAKLSLDGQNIYNACCTLRIDFSKLTSLNVKYNNDKSRDYTRPDLP SGDSQPSLDQTMAAAFGLS
VPNVHGALAPLAIP SAAAAAAGRIAIPGLAGAGNSVLLVSNLNPERVTPQSLFILFGVYGDVQRVKILFNKKE
NALVQMADGNQAQLAMSHLNHKLHGKPIRITLSKHQNVQLPREGQEDQGLTKDYGNSPLHRFKKPGSKNFQNI
PPSATLHLSNIPPSVSEEDLKVLFSNNGGVVKGFKFQKDRKMALIQMGSVEEAVQALIDLHNHDLGENHHLRVS
FSKSTI

1065/2777
FIGURE 949A

CGAAGGCTTCATCGAAGTCCTGACCAAGAAGCAGCGCCGCTGCTGGAGGAAGAGAGAAGAAAGAAGGAGCAGGC
CGTGCAGGTGCCTGTCAAAGGTCGAGGCCCTTTCCTCCCGTATTCTCTCTCGATTTGCAAAAAGCAGAACAACCTT
ATGTCTGGAGCAAGGTGACGTGACCGTGCCTGGCAGCAGCCTGGGCACTGAGATCTGGGAGAGCAGCAGCCAGGC
TCTCCCTGTGCAGGCCCCAGCCAACGACTCCTGGAGGAAAGCTGTCACTGCCTTCAGCAGCACCGAGACTGGCTC
TGCGGAGCAGGGTTTTTAAGAGCAGCCAGGGAGATAGTGGCGTTGACTTGAGTGCCGAGTCTCGGGAGTCGTCTGC
GACCTCCTCGCAGCGCAGCTCCCCATATGGGACTCTGAAGCCAGAGGAGATGAGCGGGCCCGCCTGGCGGAACC
CAAGGCCGACAGCCACAAGGAGCAGGCTCCAAAGCCATCTGAGCAGAAGGATTGAGAACAAGGCTCTGGACAGAG
CAAGGAGCACAGACCAGGACCCATCGGCAACGAGCGTTCTCTGAAAAACAGAAAGGGCTCGGAGGGGGCCGAGCG
GCTGCAAGGGGCTGTCTGCCCGCTGTAAACGGGGTGGAGATTACGTGGACTCCGTGCTGCCTGTGCCACCCAT
TGAATTTGGAGTCAGTCCAAAAGACTCCGATTTACGCTTGCCACCTGGTTCTGCCTCTGGTCTTACTGGGAGTCC
AGTTGTTAAACTTCAGGATGCCTTGCCAGTAATGCAGGGTTAACACAGAGTATCCCCATCTGCGGCGGGACCA
TCACATCCAGAGGGCCATCGGTCTCTCCCCAATGTCTTCCCCACCGCCGACCTTACTCTGAAGATGGAGTCTGC
GCGCAAGGCTTGGGAAAACCTCCCCAGTTTGCCGAGCAGAGCTCTCCAGGCGGCGCTGGCTCAGGCATCCAGCC
TCCATCTCTGTGGGTGCCTCCAGCGGGGTCAACTACAGCTCCTTCGGTGGAGTGTCCATGCCACCCATGCCTGT
GGCCTCTGTAGACCTTCTGCTTCTATGCCAGGCAGCCACCTCCCGCCCTGTACCTGGATGGCCATGTGTTTGC
AAGTCAGCCCCGGCTGGTTCTCAAACGATACCTCAGCAGCAGAGTTACCAACAGGCCCGCCGCTGCCAGCAGAT
CCCGATCTCCCTTCACACATCTCTGCAGGCACAAGCTCAGCTTGACTGAGGGGTGGGCTTCTGTGTCCAGTC
CCAGGAGATCTTCAGCTCCTTGACAGCCCTTCAGATCTCAGGTGTACATGCACCCAGCCTGTACCGCCAGCAC
CATGATCCTCTCTGGGGGCACAGCCTTGAAGCCTCCATACTCGGCGTTCCAGGCATGCAGCCCTTGAGATGGT
GAAGCCGAGTCTGGCTCACCTACCAGCCCATGAGCGGGAACCAAGCCCTGGTCTACGAGGGCCAGCTCAGCCA
GGCTGCTGGCCTGGGTGCCTCCAGATGTTGGACTCCAGCTCCACAGCTGACCATGCCACTGCCTCGGTACGG
CTCCGGGCAGCAGCCACTGATCCTGCCCCAGTCTATTACGCTGCCACCTGGGCAGAGCCTCTCCGTTGGGGCCCC
CCGAAGGATTCTCCGCCCCGGGTCCAGCCGCCAGTCTGAACACCAGCAGAGAGCCCTCTCAGATGGAGATGAA
AGGCTTCCACTTTGCCGACAGTAAACAGAATGTCCCTTCAGGAGGCCCGTGCCATCGCCACAGACCTACAGGCC
TAGCTCTGCTAGCCCCAGTGGAAGCCCTCTGGATCAGCAGTTAACATGGGCTCTGTGCAGGGACACTACGTGCA
ACAGGCAAAACAACGAGTGAGTGAAGAAACCCAGCCTGGGAGCCGTGAAGCTGCAGGAGGCCCCCTCGGCTGCCTC
CCAGATGAAGCGAACCGGAGCGATCAAGCCTCGGGCTGTCAAAGTGGAGGAGAGTAAGGCCTGACAGTGCCTGGC
TGCCACCTCGCCTCTCCCTACTGAGGACGGTGCCGCCATGCGGCCTCGACACAGCCGACACTCGGGAGCCTCACC
AGATCCACCGTCCAAATGCGTGGCCAGACTGAGAGACCTCCCTCCTCTCCACTCCCGAAAGCTCCGTTGTCAAC
CAGCTTGACCCGTGGATATATGGCATTGACCCGCTTGCTTTGATACGAAACAAAAAGCAGACGACTCCTTCAT
CCCATCTGCTCCTACCGTGACTGTGGAGTGACGCCCTCTGTGCAGTGCAGATTTGCCCTCCCTGCCTCCTCCCTG
TCCTGCCGCGCAGCCAGGGCGCCTTCTCAGCAGTGCTTCCGGCCAGCCGCCCATCCCTAGGCACAGTGATTTGG
CAGCAGGGTCATTTTACTTTGAGGCTTTTTGTTTTAAATGTAGCCAAGGTTTTTACAAAGGGGAAAGGAAAAGA
AAACAAAACGCAAGCTCCATGTGTATAGCTGAACTTTTATATGTTTCTTGCCAGCCCCCTCCGCTCCCTTCCATC
TCTAGCCTCTGTCTGTTTAGTTTGATACGTCACTGCAGTACCTTAAGAGGTGACTCTTAAGAATGCATCCCCCTC
CTGATTCTCAGCTGGTTCACCCCTGAGGTTATTTGCAAAAAGAAAAGGAGGTTCTTGAGGGCACCGATTGCCGAG
CATTCTGGTGCCTGGCTCCCCGCTGGGAAGCAATGGGGTGCTCAGAGCAGCAGGCAGGTTGGGGGAGGGGGGGG
GGTCATAGTTGGGTTCCAGCTCCTGGCTTGATGAGCCAGGGCGCTTACAGGCAGCCCATGAAGTTGATGACAGT
TTTAGCATGAGAATCACACAGGGTCCCTGTCTGGGCTCCTCTAAAGCCAGTGGATGTGCTGGGCACCAGAGACA
AATCATGGAGATGGCTGCTGGTGGCTCCAGGTTGGCCAGATGGGGTGAGCTGACATACCACAGGCCCCATCCCA
GGCCCCGTGGGCTCTGCTTCTGGGGCTCCATACCCTGCCCTGCGGGGGTGCTGTGTTTTTACACATTTCTTTCC
CTGAAGCCTTCTGTAAACCTGTCATTTTCTTCTTCTTCCGGAGCCTGCTGCTTTCTCTGGACCTGTCTCCA
CCTCCACACAGCTCATCGTGAACACCCTTGGTGATGGAGGGAGTGGACCCGTGTGTGGTCCCCAAGTGAGGCC
ACTGGGAGTTTGTCTTTTCTCTCTTTGCTTCACTCCAGCAGCAGACCCAGGTTGTGAGGACAGGAGGGCCTGA
GCTAAGCAGTAGGCATCAGTCTCGTTTGTCTTTCAGACGGCGGGGGCAGGTCCAGGGTGAGGCTGGGTGGAGGGCT
GACCAAGGTCCAAAGGGCCTGCGCAGCCTCCGGGAGGGCAGCTTCTCCAGCCAGAGGCTTGTGTGAGCCATCGTG
TGCTGGGCTTGTTTTTAAGTAAGAAACAAGGAAATCACTCCAGATTCTGTCAATCCAAGGAAAGGGAAGGGGACA
GTTCAGGTTTCTCAGCTGTTCTTAGGGGTCACTGAGCGTCTACCTCCTCCTCCAGAGGAGGCTGGCTCAGAACAC

1066/2777
FIGURE 949B

CTAGAGGAGGGGGCCGGGGATGCACCCCCACCAGAGGCTGCCTTCAGCGTCTCACGGGTGCAGGACAGCGCTCA
GGCTTGGGCTCTAAGCTCTGTGTCTAGTGTAGAACATGGGGAAGGAGCATCTTAGGAACTGCTGAAGTAACTTCT
TACTGCTCTCACAATTCTAAGGAAGCGGGAGAACGGCCTCCTACCAACAGCGCCCCACCCAGAGCTGCCTGGGAA
AGGGCAGTTTTACTGAAAGGTGCTTTACTGTTACCTGCATCTTTCAGCAGCTCCCCCTCCTGCCCTCACCTGGTC
TTTTCCCTCTTTATCCCAAGCCTTTATGCTTGAGTCCCTTCCCCAGGGGCTGCCCACCCGACAGTTCCAGGCATT
CCCTACCTGAGCTTCTTGTCTGCTTTTCTTCTCCCACTGCAGGCGGCTGCTTGTGGGGCCTGGGATGAGCCCTC
TCTGTCCCCACCGGCCCTCCTTGCCAAGCCATTCTGGGTGAGTTCAGGCCTGCGGGAGCCACACATTTCATCTCC
ACCTGGACACTTGAGCCGCATGGCCAGACCCCTCCCACTGATGCGGTGGTGCGTGTGATTGTCAAAAAGAAAGC
CTTCTGGATGCTGTAAAGATGTACCCTTCAGGTGAACCTGGTATCAGACCCACAGTACTTGCTGTTTGAGAAAAA
ATAAAAAACAAAAAGGTACCTGTTCTCCAGCCCTTTTCTCTTACCTGGTATTTCTTCTCTTCTCTCCCCACC
CCAAATAAAAAACAAAAACACTAGAAATTTATTTATATGTATTGATGTTGTAGGTCTAGGTGAAAAAAAAGAA
GTAAATGTTTCACTGCTCTATTTATATATAATGTCTGAATTAATTCTGTGCAGGAAAGGCCAGGAAATTGCATGT
GAAGTTCGGTGCAGTACCACCTCTGTGTGACCTGAGCTGCAGTCTCTTCGCTGAGATGCAGGTTTTAAATGAGA
CTTGGGGGGCTGAGGGCAGGCCTCAGGCCTCCAGCGCCCCAACCCCTCCTTGGTCTAATGAAATGCAGTTCTTA
GTGCAGAGATGTTTTAAGGTGCAATATATCTCTTCTTCTTCCCGTGGTTTTAGAGCCAAGCTCAAGGTAGTAGGAC
GTAGGGTCTTATTTTGTTTTCAAACCCCATCCTCAGAGCGCAGATACATGCAGAGGCTTCTGCCAGGATACAC
GGGGCCTTAGTGGGAACAGGTGGAGACCAGCACTTCCCTTTCTGCTGCTGAGGTAGGGATTGGGGGGTCAGAAC
CCACTCACTTTTGCCTGTTAAAGTTGCCCTCCTGACGCTGGCAGCTCTGCCCTGGTCACTGGGGATGCGGCTCGT
TGCTCAGCCACCAGTGGCCTTGCGGTATTGTCCACCATCCACTAGAGTGGGATGAAGTCCAGAGTGTGGGTATAC
ATCTCAGATGCCATCTACCCACTGGGGACTTCAATGCCAGCTGCATTTGGTTTTGGTTTTCTTAACTGTTGGCTT
CTCCCCACAGCGTTTTTTGTTTTTTTTTAAACATTTCATATTGTTTTCAAACCTTGGAAATTCATAGACACTCTGGCT
CTAGGTTCCTTAAGGGGGAAAACAAAAGATGACTTTATTTTACATTCAAGAAAATCAGTTCAGTTCCAAAGCTGT
GGTCCCTCCAGCCACTTCTAGGGACACTGGGGAACCTTGTAAACGTTGACATCAGTGCTCTCCAGCCGTGCTGT
CACCCCTCCTATCTTCTGGATCTGCCCTTCGGGATGGTCAGTGACAGCTTCTGGAAGCTGAGCACACACAGGTGCAC
AGCCATGCTGTGGTCTGGCCTGCTACGGCAGCATGGCAGCTCTGGTGGAGCCTTCTCCCTTGCCATTTGGTTCCC
CTGTGCCAAGTAGCTGCAGGCTGCCCCTCAAATCTTCATTTGTCCCTTTTCACTTCTGAGAACAAGCCTGGGT
TAGAGGTCTGCTGGAAATGGCCTTTGAAGACCAAGGATACCAGGATGTGTGCACTCTGTCGTGTTCTGTGATGA
ATGGGAAACGCAGGCTTCCAGAAAGCCAGCTCTCTCTGAAATGTGACGGACCTAAGCAGGAAGTCATCCAGGAC
AGGAGTGGCTCAGTGTGGGGATGGACGCTGTGCCCAGCCATGCTCCACCAGGGCCACCAATGTGTAGTTGGCT
GGTGGTCTTCGGGCATGTGAGACCTGCTCTTCACTGTTTCCACCCCACTTGGTGGCCTCCAGGATGGTAGTGGCA
CCCTCAGAGCCCCATCTTACAGCATGTTCTGAAGCCTCAGAGTGGAATTCCTGCTAAGGCTCTGTGTGGACGCCCT
TTCTCCCGTGATCTAAAGGGGACACTGTACTCAAGCTTTTGACCTCATGCCTTGTGTAGTAAAAAAGGATTTGGG
GGTTTTGTTTGGTTTCTGAGAGGGTTGTGTTTTGTTTTGTTTCTTTTGTATGTTTTGGCCTTTCTCTTTG
TCTTTCCATGTAGACCAGATATTTGAAAGGGCAGACGATGGCTAGAGGTGTAATGTGCAGCTTGTATACGGTA
TTTTGGGAAACTTACCTTGGATGGGAAATCGAATCGTGGATTACACAGGCCGGTGCTGGCACACTCACCCCTGCC
CTTTCCCTCCGTTTCACTACCTATTGTTTCTCTTTCAAATATGTGATTGTACTAGCTCTTTCCATATGAAAGAA
TTCTCCTTATTTAAATAAAAAAAGTTTAAAAAGAT

1067/2777
FIGURE 950

EGFIEVLTKKQRRLLLEEERRKKEQAVQVPVKGRGLSSRIPPRFAKKQNNLCLEQGDVTVPGSSLGTEIWESSQA
LPVQAPANDSWRKAVTAFSSTETGSAEQGFKSSQGDGVDLSAESRESSATSSQRSSPYGTLKPEEMSGPGLAEP
KADSHKEQAPKPSEQKDSEQSGQSKEHRPGPIGNERSLKNRKGSEGAERLQGAVVPPVNGVEIHVDSVLPVPP I
EFGVSPKDSDFSLPPGSASGPTGSPVVKLQDALASNAGLTQSIPILRRDHHIQRAIGLSPMSFPTADLTLLK'MESA
RKAWENSPSLPEQSSPGGAGSGIQPPSSVGASSGVNYSSFGGVSMPPMPVASVAPSASMPGSHLPPLYLDGHVFA
SQPRLVPQTIPQQQSYQQAAAAQQIPISLHTSLQAQAQLGLRGGLPVSQSQEIFSSLQPFRRSQVYMHPSLSPST
MILSGGTALKPPYSAFPGMQPLEMVKPKQSGSPYQPMQGNQALVYEGQLSQAAGLGASQMLDSQLPQLTMTPLPRYG
SGQQPLILPQSIQLPPGQSLSVGAPRRIPPPGSQPPVLNTSREPSQMEMKGFHFADSKQNVPSGGPVPSPQTYRP
SSASPSGKPSGSAVNMGSVQGHYVQQAQQRVDEKPSLGAVKLQEAPSAASQMKRTGAIKPRAVKVEESKA

1068/2777
FIGURE 951

AGATGCGAGCACTGCGGGCTGGGCGCTGAGGATCAGCCGCTTCCTGCCTGGATTCCACAGCTTCGCGCCGTGTACT
GTCGCCCCATCCCTGCGCGCCCAGCCTGCCAAGCAGCGTGCCCCGGTTGCAGGCGTCATGCAGCGGGCGCGACCC
ACGCTCTGGGCGCGCTGCGCTGACTCTGCTGGTGCTGCTCCGCGGGCCGCGGTGGCGCGGGCTGGCGCGAGCTCG
GGGGGCTTGGGTCCCGTGGTGCGCTGCGAGCCGTGCGACGCGCGTGCACTGGCCCCAGTGCGCGCCTCCGCCCGCC
GTGTGCGCGGAGCTGGTGCGCGAGCCGGGCTGCGGCTGCTGCTGACGTGCGCACTGAGCGAGGGCCAGCCGTGC
GGCATCTACACCGAGCGCTGTGGCTCCGGCCTTCGCTGCCAGCCGTGCCCCGACGAGGCGCGACCGCTGCAGGCG
CTGCTGGACGGCCGCGGGCTCTGCGTCAACGCTAGTGCCGTGAGCCGCTGCGCGCCTACCTGCTGCCAGCGCCG
CCAGCTCCAGGAAATGCTAGTGAGTCGGAGGAAGACCGCAGCGCCGGCAGTGTGGAGAGCCCGTCCGTCTCCAGC
ACGCACCGGGTGTCTGATCCCAAGTTCCACCCCTCCATTCAAAGATAATCATCATCAAGAAAGGGCATGCTAAA
GACAGCCAGCGCTACAAAGTTGACTACGAGTCTCAGAGCACAGATACCCAGAACTTCTCTCCGAGTCCAAGCGG
GAGACAGAATATGGTCCCTGCCGTAGAGAAATGGAAGACACACTGAATCACCTGAAGTTCTCTCAATGTGCTGAGT
CCCAGGGGTGTACACATTCCCAACTGTGACAAGAAGGGATTTTATAAGAAAAAGCAGTGTGCGCCTTCCAAAGGC
AGGAAGCGGGGCTTCTGCTGGTGTGTGGATAAGTATGGGCAGCCTCTCCAGGCTACACCACCAAGGGGAAGGAG
GACGTGCACTGCTACAGCATGCAGAGCAAGTAGACGCCTGCCGCAAGGTTAATGTGGAGCTCAAATATGCCTTAT
TTTCTACAAAAGACTGCCAAGGACATGACCAGCAGCTGGCTACAGCCTCGATTTATATTTCTGTTTGTGGTGAAC
TGATTTTTTTTAAACCAAAGTTTAGAAAGAGGTTTTTGAATGCCTATGGTTTCTTTGAATGGTAAACTTGAGCA
TCTTTTCACTTTCCAGTAGTCAGCAAAGAGCAGTTTGAATTTTCTTGTGCTTCTCTATCAAATATCTAGAGACT
CGAGCACAGCACCAGACTTCATGCGCCCGTGGAATGCTACCACATGTTGGTCGAAGCGGCCGACCACTGACTT
TGTGACTTAGGCGGCTGTGTTGCCTATGTAGAGAACACGCTTACCCCCACTCCCTGTACAGTGCGCACAGGCTT
TATCGAGAATAGGAAAACCTTTAAACCCCGGTCATCCGGACATCCCAACGCATGCTCCTGGAGCTCACAGCCTTC
TGTGGTGTCATTTTCTGAAACAAGGGCGTGATCCCTCAACCCAGAAAGAGTGTATGTCTTCAAGTGACCTGTAC
TGCTTGGGGACTATTTGAGAAAATAAGGTGGAGTCTTACTTGTTCACAAATATGTATCTAAGAATGTTCTAGGG
CACTCTGGGAACCTATAAAGGCAGGTATTTGCGGCCCTCCTCTTCAGGAATCTTCTGAAGACATGGCCCAGTCG
AAGGCCAGGATGGCTTTTGTGCGGCCCCGTGGGGTAGGAGGGACAGAGAGACAGGGAGAGTCAGCCTCCACAT
TCAGAGGCATCACAAGTAATGGCACAATTCTTCGGATGACTGCAGAAAAATAGTGTTTTGTAGTTCAACAACCTCAA
GACGAAGCTTATTTCTGAGGATAAGCTCTTTAAAGACAAAGCTTTATTTTCATCTCTCATCTTTTGTCTCCTTA
GCACAAATGCAAAAAGAATAGTAATATCAGAACAGGAAGGAGGAATGGCTTGCTGGGGAGCCCATCCAGGACACT
GGGAGCACATAGAGATTCACCCATGTTTGTGTAACATTGATACAACTAGCCCCAAATATAGTAAGATCTATACTAGATAA
TCCTAGATGAAATGTTAGAGATGCTATATGATACAACTGTGGCCATGACTGAGGAAAGGAGCTCACGCCCAGAGA
CTGGGCTGCTCTCCCGGAGGCCAAACCCAAGAAGGTCTGGCAAAGTCAGGCTCAGGGAGACTCTGCCCTGCTGCA
GACCTCGGTGTGGACACACGCTGCATAGAGCTCTCCTTGAAAACAGAGGGGTCTCAAGACATTCTGCCTACCTAT
TAGCTTTTCTTTATTTTTTTAACTTTTTTGGGGGGAAAAGTATTTTGAGAAGTTTGTCTTGAATGTATTTATAA
ATAGTAAATAAAGTTTTTACCATT

1069/2777
FIGURE 952

MQRÄRPTLWAAALTLLVLLRGPPVÄRAGASSGGLGPVVRCEPCDARALAQCAPPFAVCAELVREPGCGCCLTCAL
SEGQPCGIYTERCGSGLRCQPSPDEARPLQALLDGRGLCVNASAVSRLRAYLLPAPPAPGNASESEEDRSAGSVE
SPSVSSTHRVSDPKFHPLHSKIIIIKKGHAKDSQRYKVDYESQSTDTQNFSSSESKRETEYGPCRREMEDTLNHLK
FLNVLSPRGVHIPNCDKKGFYKKKQCRPSKGRKRGFCWCVDKYGQPLPGYTTKGKEDVHCYSMQSK

1070/2777
FIGURE 953

CCGCGGCGGGCTCCGGGGTCTCCAGTAGGGCTGACGCTCCGGTGCTCGCACAAATCCCCGCCTCGGCTGGCAACG
GGCGTCCCTCCACTCCCCGAGTCCCCGGCAGCCGCCGCCACCCAGCGCGCCCCGATCTGGCCCCCTGCCCCGCG
AAGATGGCTGCCGTACGCCGGGCCCCGAGTTATTGCCGCTGCCTGGTGCGCTTCTCCGACCGAGAACTCTGCTAA
GCTCCGCTGCAGAGACAGGCAGGAGTAGACACCCGGACACCCAGCACCCCTCTCCGGGGGGCGGTGCAGAGGGG
GCACGGAGAGCCCCCTCGAGCGCAGCAGGCCGCCCGCCAGCATGGCAGAAGCTGAGGAAGATTGTCATTCTGATA
CTGTGAGAGCAGATGATGATGAAGAAAATGAAAGTCTGCTGAAAACAGATCTGCAGGCACAACCTCCAGATGTTCC
GAGCTCAGTGGATGTTTGAACCTTGCTCCAGGTGTAAGCTCTAGCAATTTAGAAAAATCGACCTTGAGAGCAGCAA
GAGGCTCTCTCCAGAAAACATCGGCAGATACCAAAGGAAAAACAAGAACAGGCAAAAAGAGAAAAGGCTCGAGAAC
TCTTCTAAAAAGCAGTAGAAGAAGAACAAAATGGAGCTCTCTATGAAGCCATCAAGTTTTATCGTAGGGCTATGC
AACTTGTAACCTGATATAGAGTTCAAGATTACTTATACCCGGTCTCCAGATGGTGATGGCGTTGGAAACAGCTACA
TTGAAGATAATGATGATGACAGCAAAATGGCAGATCTCTTGTCCTACTTCCAGCAGCAACTCACATTTTCAGGAGT
CTGTGCTTAAACTGTGTGAGCCTGAGCTTGAGAGCAGTCAGATTACATATCAGTGCTGCCAATGGAGGTCTGTA
TGACATCTTCCGATGGGTGGTGTCTAGTGACTTGGACCTCAGATCATTGGAGCAGTTGTGCTGGTGTGCAGAG
GATTCTACATCTGTGCCAGAGACCCTGAAATATGGCGTCTGGCCTGCTTGAAAGTTTGGGGCAGAAGCTGTATTA
AACTTGTTCCGTACACGTCCTGGAGAGAGATGTTTTTAGAACGGCCTCGTGTTTCGGTTTGATGGCGTGTATATCA
GTAAACCACATATATTCGTCAAGGGGAACAGTCTCTTGATGGTTTCTATAGAGCCTGGCACCAAGTGGAATATT
ACAGGTACATAAGATTCTTTCTGATGGCCATGTGATGATGTTGACAACCCCTGAAGAGCCTCAGTCCATTGTTC
CACGTTTAAGAACTAGGGAATACCAGGACTGATGCCAATTCTACTGGGTCACTATCGCTTGGCACAAGACACAGA
CCATCAGACCCAAAGTATTTTGTGTAATAACTAAGAAAAAAGGAAGAAAAACCACTTGGACTATAAATACCCG
ATATTTTCGTGCTGTCCCTGTACAAGAAGCAGATCAGAGTTTTCATGTGGGGCTACAGCTATGTTCCAGTGGTCA
CCAGAGGTTCAACAACTCATCTGGATACATCATTCTTGTCACATTACTTACAAATCAACTGGTGAGACTGCAGT
CAGTGCTTTTGAGATTGACAAGATGTACACCCCTTGTTCTTCGCCAGAGTAAGGAGCTACACAGCTTTCTCAGA
AAGGCCTCTGTAGAGCCTCAAGTCCAGTCTCTATCACTTTTGCATGAATTAAAGTATATAGCGCAAAAAAAAAA
AAAAAACTCTCTCCTCGTGCCGAATTCGGCACGAGGGACTACAACCTCTCCCAGGTATGCGACGGGAAAGTATC
CGTCCACGTCATCGAGGGTGACACCCGACGCTGCTGGAGGGCAGCGGCTGGAGTCCATCATCAGCATCATCCA
CAGTCTCCCTGGCTGAGCCACGCGTGAGCGTGCGGGAGGGCTAGGCCCCGTGCCCCCGCTGCACCGGAGGTCACTC
ACCATCCCCACCCACCCACCCCGCCATGCAACGGGATTGAAGGGTCTGCGGGTGGGACCCTGTCCGGCCCCA
GTGCCACTGCCCCCGAGGCTGCTAGACGTAGGTGTTAGGCATGTCCCACCCACCCGCCGCTCCCACGGCACCT
CGGGGACACCAGAGCTGCCGACTTGAGACTCCTGGTCTGTGAAGAGCCGGTGGTGGCCGTGCCCGCAGGAAGTGT
GGCTGGGCCTCGTGCGCCCGTGGGGTCTGCGCTTGGTCTTTCTGTGCTTGGATTGTCATATTTATTGCATTGCTG
GTAGAGACCCCCAGGCCTGTCCACCCTGCCAAGACTCCTCAGGCAGCGTGTGGGTCCCGCACTCTGCCCCATTT
CCCCGATGTCCCTGCGGGCGCGGGCAGCCACCCAAGCCTGCTGGCTGCGGCCCCCTCTCGGCCAGGCATTGGCT
CAGCCCGCTGAGTGGGGGGTCTGGGGCAGTCCCCGAGGAGCTGGGCCCCCTGCACAGGCACACAGGGCCCCGCCA
CACCCAGCGGCCCCCGCACAGCCACCCGTGGGGTGTGCCCCATTGCCCCGGCGCCGGGCACCAACTCCATGTTT
GGTGTGTTGTCGTGTTTGTGTTTTTCAAGAAAATGATTCAAAATGCTGCTTGGATTTTGAAATTTACTGTAACTGTCA
GTGTACACGTCGTGACCCCGTTTTCAATTTTACACCAATTTGGTAAAAATGCTGCTCTCAGCCTCCCACAATTA
CCGATGTGATCTCCAAAAA

1071/2777
FIGURE 954A

GCCGCGCACTCTCCGCGGCGCTGGGAGAGGGCGGAGGGGGAGGCGGCGCGGGCGCCAGAGGAGGGGGGACGCAG
GGGGCGGAGCGGAGACAGTACCTTCGGAGATAATCCTTTCTCCTGCCGAGAGGAGAGGAGCGGCCGGAGCGAGA
CACTTCGCCGAGGCACAGCAGCCGGCAGGATGGCGACCGTGGTGGTGAAGCCACCGAGCCGGAGCCGTCCGGCA
GCATCGCCAACCCGGCGGCGTCCACCTCGCCTAGCCTGTCGCACCGCTTCCTTGACAGCAAGTTCTACTTGCTGG
TGGTCGTCGGCGAGATCGTGACCGAGGAGCACCTGCGGCGTGCCATCGGCAACATCGAGCTCGGAATCCGATCAT
GGGACACAAACCTGATTGAATGCAACTTGGACCAAGAACTCAAACCTTTTTGTATCTCGACACTCTGCAAGATTCT
CTCCTGAAGTCCAGGACAAAAGATCCTTCATCACCGAAGTGACGTTTTAGAAACAGTGGTCTGATCAACCCTT
CTGATGAAGCAGTCAGCACCGAGGTGCGCTTAATGATCACTGATGCTGCCCCGACACAAGCTGCTCGTGCTGACCG
GGCAGTGCTTTGAAAATACCGGAGAGCTCATTCTCCAGTCCGGCTCTTTCTCCTTCCAGAACTTCATAGAGATTT
TCACCGATCAAGAGATCGGGGAGTTACTAAGCACCAACCCATCCTGCCAACAAGCCAGCTTAACCCCTGTTCTGTC
CTGAAGAAGGGGACTGGAAGAACTCCAATCTTGACAGACACAATCTCCAAGACTTCATCAATATTAAACTCAATT
CAGCTTCTATCTTGCCAGAAATGGAAGGACTTTCTGAGTTTACCGAGTATCTCTCAGAATCAGTGGAAGTCCCAT
CTCCCTTTGACATCTTGGAACCTCCACATCGGGTGGATTTCTGAAGCTCTCCAAGCCCTGCTGTTATATTTTTTC
CAGGAGGGAGGGGCGATTCTGCCTTGTTTGCAGTGAATGGTTTCAATATGCTCATCAATGGCGGATCAGAGAGAA
AATCCTGCTTCTGGAAGCTCATCCGACACTTAGACCGAGTGGACTCCATCCTGCTCACCCACATTGGGGATGACA
ATTTGCCTGGAATAAACAGCATGTTACAGCGGAAAATTGCAGAGCTCGAGGAAGAACAGTCCCAGGGCTCCACCA
CAAATAGTGACTGGATGAAAAACCTCATCTCCCCTGACTTAGGAGTTGTATTTCTCAATGTACCTGAAAATCTCA
AAAAATCCAGAGCCAAACATCAAGATGAAGAGAAGCATAGAAGAAGCCTGCTTCACTCTCCAGTACCTAAACAAT
TGTCATGAAACCAGAACCTCTGTTTAGAAGTGTAGGCAATACTATTGATCCTGTCAATCTTTTCCAAAAAATGG
GAGTAGGTAACTTGAGATGTATGTGCTTAATCCAGTCAAGAGCAGCAAGGAAATGCAGTATTTTATGCAGCAGT
GGACTGGTACCAACAAAGACAAGGCTGAATTCATTCTGCCTAATGGTCAAGAAGTAGATCTCCCGATTTCTCTACT
TAACTTCAGTCTCATCTTTGATTGTGTGGCATCCAGCAAACCCCTGCGGAGAAAATCATCCGAGTCTGTTTCTCTG
GGAACAGCACCCAGTACAACATCCTGGAAGGGTTGGAAGAGCTCAAACATCTAGACTTTCTGAAGCAGCCACTGG
CCACCCAAAAGGATCTCACTGGCCAGGTGCCCCTCCTGTGGTGAAACAAAACAAAACCTGAAACAGAGGGCTGATA
GCCGAGAAAGTCTGAAGCCAGCCGCAAAACCACTTCCTAGCAAATCCGTGCGCAAGGAGTCAAAGAAGAAACCC
CTGAGGTCACAAAAGTGAATCACGTGGAAGGCCACCCAAAGTTGAAAGCAAAGAAAAGGTAATGGTGAAAAAG
ACAAGCCAGTAAAAACAGAGACCAAACCTTCAGTGACTGAAAAGGAGGTTCCAGCAAAGAAGAGCCATCTCCAG
TGAAAGCCGAGGTGGCTGAGAAGCAAGCCACAGATGTCAAACCCAAAGCTGCCAAGGAGAAGACGGTGAAAAAGG
AAACAAAGGTAAAGCCTGAAGACAAGAAAGAGGAGAAAGAAAAGCCAAAGAAAGAGTGGCTAAAAAGGAGGACA
AAACACCTATCAAGAAGGAGGAAAAACCAAAAAAGGAAGAGGTGAAAAAGAAAGTCAAAAAAGAGATCAAGAAAG
AAGAGAAAAAGAAACCAAGAAAGAGGTTAAGAAAGAAAACACCGCCAAAGGAAGTCAAGAAGGAAGTTAAGAAGG
AAGAGAAGAAAGGAAGTGAAGAAAGGAAGAAAGGAACCCAAAAAAGAAATTAAGAAGCTCCCTAAAGACGCAAGA
AATCATCTACTCCTCTGTCTGAAGCAAAAAAACAGCTGCTTTAAACCAAAAGTACCCAAAGAAGGAAGAGTCTG
TCAAGAAAGATTCTGTTGCTGCCGAAAGCCAAAGGAGAAAGGGGAAAATAAAAGTCATTAAGAAGGAAGGCAAGG
CCGAGAGGGCTGTGCTGTCAGCTGTGCGCACTGGAGCCACCACAGCAGCTGTCTATGGCGGCAGCTGGAATAGCAG
CCATTGGCCCTGCCAAAGAACTCGAAGCTGAGAGGTCCCTTATGTATCTCCTGAGGATCTAACCAAGGACTTTG
AAGAGTTAAAGGCTGAAGAGGTGATGTAACAAAGGACATCAAGCCTCAGCTGGAGCTAATCGAAGACGAAGAGA
AACTGAAGGAACTGAGCCAGTCAAGCCTACGTATCCAGAAGGAGAGAGAAGTACCAGGAGTCTGCGGAGT
CCCCTGATGAGGGAATCACTACCACTGAAGGGGAGGGCGAATGTGAACAGACACCTGAGGAGCTGGAGCCCGTCTG
AGAAGCAGGGAGTAGACGACATTGAAAAATTTGAAGATGAAGGAGCCGTTTTGAAGAATCTTCAGAGACTGGAG
ACTATGAAGAGAAGGCAGAACTGAGGAGGCTGAGGAGCCAGAAGAGGATGGGGAGGAACACGTATGTGTGAGCG
CCTCCAAGCACAGCCCCACTGAGGATGAGGAAAGTGCCAAGGCGGAGGCTGATGCATACATCAGGGAGAAGAGGG
AGTCTGTGGCCAGTGGGGATGACCGAGCCGAAGAAGACATGGATGAGGCCATTGAGAAAGGAGAGGCTGAACAAT
CTGAAGAGGAGGCTGATGAGGAGGACAAAGCTGAAGATGCCAGAGAGGAGGAATATGAGCCGAAAAAATGGAAG
CTGAAGACTATGTGATGGCTGTGGTCGACAAGGCTGCAGAGGCTGGTGGTGCCGAGGAGCAGTATGGATTCTCA
CCACACCAACCAAGCAACTAGGAGCCCAGTCTCCTGGCCGAGAACCTGCATCTTCAATTCATGATGAGACTTTAC
CTGGAGGCTCAGAGAGCGAGGCCACCGCTTCTGATGAGGAGAATCGAGAAGACCAGCCTGAGGAATTCAGTCCCA
CCTCTGGCTACACTCAGTCTACTATTGAGATATCCAGTGAGCCCACCCCATGGATGAGATGTCTACCCCTCGAG

1072/2777
FIGURE 954B

ACGTGATGAGTGATGAGACCAACAATGAAGAGACGGAGTCCCCTTCTCAGGAATTCGTAAATATCACCAAATATG
AATCTTTCATTGTATTCTCAGGAATACTCTAAACCTGCTGATGTTACACCGCTCAACGGATTTTCTGAAGGATCAA
AAACAGATGCCACTGATGGCAAGGATTACAATGCTTCAGCCTCTACCATATCACCAACCTCTTCCATGGAGGAAG
ACAAATTCAGCAGATCTGCTTTACGTGATGCTTACTGCTCTGAAGTGAAAGCCAGCACCCTTTGGACATCAAAG
ATAGCATCTCAGCTGTTTCAAGTGAAAAGGTGAGCCCATCGAAGAGCCCGTCCCTGAGTCCATCTCCACCATCAC
CCTTAGAAAAGACCCCCCTGGGTGAACGTAGTGTGAACCTTCTCTCTGACGCCCAATGAGATTAAAGTCTCTGCAG
AGGCAGAAGTAGCCCCGGTGTCTCCTGAGGTGACCCAAGAAGTAGTTGAAGAACATTGTGCTAGTCTCTGAGGACA
AGACTCTGGAAGTGGTGTACCATCTCAGTCCGTGACTGGCAGTGCTGGTCACACACCTTACTATCAATCTCCTA
CTGACGAGAAAATCCAGTCATCTCCCTACAGAAGTCATTGAAAAACCAAGCAGAGTTCCAGTGAGTTTTGAATTCA
GTGATGCCAAAGATGAGAATGAAAGGGCTTCAGTAAGCCCCATGGATGAGCCCGTGCCTGACTCAGAGTCTCCTA
TTGAAAAAGTTTTGTCTCCTTTACGCAGCCCGCCCCCTCATTGGATCCGAGTCTGCTTATGAAAAGTTTTCTAAGTG
CTGATGACAAGGCTTCTGGCAGAGGTGCCGAAAGTCCTTTTGAAGAAAAGAGTGGAAAACAAGGCTCTCCAGACC
AAGTAAGTCCAGTTTCTGAAATGACTTCTACTAGTCTTTACCAAGACAAACAGGAAGGGAAAAGCACAGACTTTG
CACCAATAAAAAGAAAGACTTTGGCCAAGAAAAGAAAAGTATGATGTTGAAGCCATGAGTTCTCAACCAGCACTGG
CTCTGGATGAAAGGAAATTAGGAGATGTTTCTCCACACAAATAGATGTCAGTCAGTTTGGATCTTTTAAAGAAG
ACACTAAGATGTCCATTTCTGAAGGTACTGTCTCAGACAAGTCAGTACTCCTGTTGATGAGGGCGTAGCAGAAG
ACACGTACTCTCATATGGAGGGTGTGGCCTCAGTGTCCACAGCCTCAGTGGCTACGAGCTCATTTCAGAGCCAA
CAACAGATGATGTGTCTCCATCTCTGCATGCTGAGGTTGGCTCCCCACATTCCACAGAAGTAGATGACTCCCTTT
CAGTGTCTGTTGTGCAACACCTACCACATTCAGGAAACAGAAATGTCTCCATCTAAAGAAGAAATGCCCAAGAC
CGATGTCAATTTCTCCACCAGATTTCTCCCCTAAAAGTCCAGGACACCCGTTCAAGATCACAGATCTG
AACAGTCCCTCAATGTCTATTGAATTTGGCCAAGAATCTCCTGAGCAATCCCTTGCTATGGACTTCAGTCGACAGT
CTCCAGATCACCTACAGTGGGTGCAGGCGTGCTTCACATCACTGAAAATGGGCCAACTGAAGTGGACTACAGTC
CTTCTGACATGCAGGACTCCAGTTTATCACATAAGATAACCACCTATGGAGGAGCCGTCCTACACCCAAGATAATG
ATCTTTCTGAGCTCATCTCAGTATCTCAGGTAGAGGCCTCCCCGTCACCTCTTCTGCTCATACCCCTTCTCAGA
TCGCTTCTCCTCTCCAAGAAGATACTCTATCCGATGTTGCTCCTCCCAGAGATATGTCTTATATGCCTCACTCA
CCTCTGAAAAGGTGCAAAGTCTGGAAGGAGAGAAGCTCTCTCCAAAATCTGATATCTCTCCACTCACCCACAGAG
AGTCCCTCTCCTTTATATTACCTACTTTTTTTCAGATTCTACCTCTGCAGTCAAAGAGAAAACAGCAACTTGCCACA
GTTCTCTTCTCCACCAATAGATGCAGCATCCGCAGAGCCCTATGGCTTCCGTGCCTCAGTGTATTTCGATACAA
TGCAACACCATCTAGCCTTGAATAGAGATTTGTCCACACCTGGCCTGGAGAAGGACAGTGGAGGGAAGACACCTG
GTGACTTTAGCTATGCCTATCAAAGCCTGAGGAAACAACAGGTCCCAGATGAAGAAGATTATGACTATGAGT
CTTATGAGAAGACCACCCGGACCTCAGATGTGGGTGGCTATTACTATGAGAAGATAGAGAGAACCACAAAATCTC
CAAGTGACAGTGGCTACTCCTATGAGACCATTGGGAAAACCTACCAAGACCCCTGAAGATGGTGACTATTCTATG
AAATTATTGAGAAGACCACACGACCCCTGAAGAGGGTGGGTACTCATATGACATAAGTGAAGAAGACCACAGCC
CCCCGAAGTGAGTGGTTACAGCTATGAAAAGACTGAGAGGTCTAGAAGGCTTCTGGATGACATCAGCAATGGCT
ATGATGACTCTGAGGATGGTGGCCACACACTTGGGGACCCAGCTACTCTTATGAAACCACTGAGAAAATTACCA
GTTTCCCTGAGTCTGAAGGTTATTCTCTATGAGACATCTACAAAGACAACACGAACCCCTGATACTTCCACATACT
GTTACGAGACTGCAGAGAAAATCACTAGAACCCCTCAGGCATCCACATATTCTACGAGACTTCAGACCTATGCT
ACACTGCAGAAAAGAAGTCCCCCTCAGAAGCCCGTCAGGATGTGATTTATGCCTCGTGTCTCTTGTGAATACA
AGCACCCCAAGACAGAGCTTTACCCCTCTTTTCAATTAATCCCAATCCTCTTGAGTGGTTTGCCAGTGAAGAACCA
CTGAAGAATCTGAAAAGCCCTCACTCAATCAGGGGGAGCCCCACCGCCTCCAGGAGGAAAGCAACAGGGCCGAC
AGTGTGATGAAACCCCTCCACCTCAGTCAGCGAGTCAGCCCCATCCCAGACCGACTCTGATGTTCCCCCGGAGA
CTGAAGAGTGCCCTCCATCACGGCCGATGCCAATATCGACTCTGAAGACGAGTCGGAACCATCCCCACAGACA
AACTGTACGTACAAACACATGGACCCACCTCCAGCTCCCGTGCAAGACCGCAGCCCTTCGCCACGCCACCCTG
ATGTGTCCATGGTGGACCCAGAGGCTTGGCCATTGAGCAGAACCTGGGCAAAGCTCTAAAGAAAGATCTGAAAAG
AGAAGACCAAAACCAAAAAGCCAGGTACAAAAGACCAAGTCATCTTACCTGTCAAAAAGAGTGATGGGAAGTCTA
AGCCCTTGGCAGCTTACCAAAAACAGCGGGCTTGAAAGAATCCTCGGATAAAGTGTCAGGGTGGCTTCTCCTA
AGAAGAAAGAATCTGTGGAAGAGCAGCAAAAACCCACCACCTCCTGAGGTCAAAGCTGCACGTGGGGAAGAGA
AAGACAAGGAGACCAAGAATGCTGCCAATGCCTCTGCATCCAAGTCGGCCAAGACCGCCACTGCAGGACCAGGAA

1073/2777
FIGURE 954C

CTACCAAGACGACCAAGTCATCTGCTGTGCCCCAGGCCCTCCCTGTGTATTTGGACCTGTGCTACATTCCCTAACC
ACAGCAATAGTAAGAATGTTGATGTGGAATTTTTCAAGAGAGTGC GGTCCTTCTACTACGTGGTGAGTGGAATG
ACCTGCTGCTGAGGAGCCAGCCGGGCTGTCTGGACGCTTTGTGTGGAAGGAAAGGCTCAGTGGGGCAGCAACA
TGCAGGTGACACTGATCCCACTCATGACTCAGAAGTGATGAGGGAATGGTACCAGGAGACCCATGAGAAACAGC
AAGATCTCAACATCATGGTTTTAGCAAGCAGCAGCACAGTGGTTATGCAAGATGAATCCTTCCCTGCATGCAAGA
TTGAACTGTAAAAACCAAGGCCAGCCACACCACAGGATCTGAACTTTGTTTCCAGAAATTCCTCAATTTGAAATC
ACCTTTTCTAAAAAGTCAATTCATCTAGTTAAGTCGCTGAACAATTACCTGCCAAATGCTATACTGTGTCTATGGT
GATGCAAGTCACTAAATTTCTCAGTTTTTGTCTGATTGCTAAGGGAAATAACAGTATTTCCACAATAGGGTTCAA
TTCCTGCAAAATTACCTACCCAGTTCATCTCTGCTGAACATTTGGAAACCATGCACTAGCCAACCCAACTGACT
TCTGCTAGGTAGAGGCATTTGTCTTAGAGAGAGAGAGAGCGCGGGAGAGAGTGAGAGAGAGCTGAGAGCACAAAG
ATAACGCAGGTGAGAGAGAGAGAAAGAATGAGGAAAGAAAAGGAATGCAAGAGAAGGAGATGTAATGACAGAGAG
TTCTGGTGAGATACCCAGAGAGAGAAAAGAGAGAGCAGGGTGGGGTAAGGAGGAGAAAATAAACCAACAATTAGGT
CTGCATTTTCTCAGGCAGTAGGCATTCTTTAGTCTACATAGGCAAAAGTTTTCCATTTTGTGCTGAGTCTGAGTCATC
AAAAAGAGTCTTAATTTTCTAAACAAGTTGGCTAGAAGAAAAGTAAAAAGAACAACACTTGTTATGAGGGCATGT
GATATTTTACATCTTAATTAAGCTCCTTCAGTTTGAAGGCTGCACACTGACATAATGTAGTGAGTGAGTACTGG
CCATGCAAGTGGTTTGGGCCCCATTTCAGAACTCTCAGACTCTAAACACACAAGTAGATTGATCTAAGGCATGCTC
CCAGCATTTGTCCACCCACTTAGTCCACTCTGAGTCGATTAACTGCATGCAGCAACACCCAAAGTCCACCCCAAT
TAACTGAAGCAAATACCAAAGCAGTTGGGAGTACATATGGTAGACAATTTGCCTTAGGAAGTGACTTGAATGTAC
AAAGATACTTGATGCACTTATTTTTTAATGTGAGACAGCAAGTTTATAAAACATCCATATAGGATTATAGATACT
TAAAGGAACACGTGGGTGAGCGTGTGTGGGGTACTAGAAGCTGATCTGATTGGTCCAACAGTTTGATGCTGAGT
CATGCGTGTTGAATCCCACTTCAGTGCACCTGTGGCCTCTCAGTCAAACAGTTGTGCCTTTTCACAGCTTCTTTA
CTACTGCAAGTTCAAGACTGAAATGGCTTCTATGATCAGAACTGGGAAAACAGTGAATCTTATGGTGGAAGAGGT
TCTCAGCAAGTGTACAGTATTTACCTTCCCTTGTCTTACATTGGCTTTTTTAAATTTTCCATTAATTTCAACATAA
TTATGGGAACAAGTGTACAGAAGAATTTTTTTTTTAAGATATGTGAGAATTTTCATAGATGAACTTTTTAACAA
ATGTTTTTCATTTACAGGAAATTGCAAGAAAATTTCTCAAGTGATAGTCTTTTTTTTTTAAGTGTTCGTAAGACA
AAAATTGAATAATGTTTTTTGAAGTTCTGGCAAGATTGAAGTCTGATATTGCAGTAATGATATTTATTA AAAACC
CATAACTACCAGGAATAATGATACCTCCCACCCCTTGATTCCCATACATAAAAGTGCTACTTGAGAGTGGGGGA
GAATGGCATGGTAGGCTACTTTTCAGGGCCTTGACAAGTACATCACCCAGTGGTATCCTACATACTTCTTTCAAG
ATCTTCAACCATGAGGTAAAAGAGCCAAGTTCAAAGAACCCTAGCACAAATTTGCTTTGGGATTTTCTTTTCTGG
AAAAAAAAAATAAAAGAAATAGTACATTGAAAACAAATGAATTCCTCACTCCTACGGTTCATGTAGAGTTAGAG
AAAATTTCCATCATTGTCTCATCTTGAAGTGTGAACCTGGGAAGCCAGATCATGATTAACACTGACATCAAGTTT
AAGTTGCAGATCAATGCACCCAGTGTTCAGATGAGGCAACTTCTCCGTGACAACCTGTGCTGTGCTCTGTCACAT
TACATTTCTGTCAGACTCTAAGATCTACGGAGTAGAGAACAATGACCTCATTTTATTTTCTATGTTAGTTATTTA
TTTCAAATTAACATTTTAGTTGATTTTTGTCTGATAAGTCTATGTTTGCAGTCTAACTATGATGAGGGTTTA
AAAAATGCTTCTTCAGGGTCTTTCACTGAGGACCTATGCAGTCTACTTAATGCTGTGAATTACATTTTTCAA
TGTTTAATTTTTTAAAGAAAATTAATATTCTATTTTTGTAGGCTTCTCTAGAAATGCAGCTTTTATTTATTACC
CCATTTCTTTCAAGTCTTGGAAAATAACATATTAAGGGTACAAGAAATTAACACATGATGGAAGAGTCATTGTG
ACGCCAATGAATTTTATTGAGTATAAACTCATCTACTTCAAATTTATTTTATAAGACAACCTAAGATACTCAAGA
TAATTTTAAATGGTTAGCTCTTAAGTTGAATTGGTCTACATAATGCGTGGGAAGAAAACCAGATTTTATAGCCTT
CTTGCCAAATCCAGACCTCTGGTTGATTTTTCTTTGACAGAAGATGCAAGTTATTTTCCAATTTCACAATTAAT
GTATTTAACATGAACATTATTTTGTCTTAAAACTATAAACATTGTAGGAGAATTATAGCCAGTCTTCAGTTATA
ACCACTCCACCCCTCTCACTTTCTGCTCTCTCTCTCTTTTTTTTTTGTCTATGGGATTTAATGGGAAAAATATG
TAAAACTGTCACTAGTCAGCTGGCTCTTTTTCTCTATGAAATCTATCAGTACCTTTCTCCATCCGTGTTCTCAA
TAATGACCACAGAGCCTGAGTATACCAAGAAAACCAATATTGCGATTACAGGTTGCTCCTGTCTTCCAGACACC
TTTCTGCTGTGTGACTAACCTAATTTTGTAGTTCCATAAATACACGATTAGTTTAGTAACAGCCATCACAAT
GTACCATGTACATTCATGGTGAGAGCTAAAGATCGACACAGACTTCTAGGAGCTTTGTTTCATACTGATTACTTAA
TCCAATTGTATAGATTGAATATTTGAGTGGAAGGAATTTACACTCTGTTTAAATGATGGGATTTCTATCGAGATAG
CACTCATGATCATGACCTTTTTGGTAGTATTCTTAAACAAAATTTCTACAGAGACTAAATGTTAGCGATGATCCTC

1074/2777
FIGURE 954D

CATTTTCAATTTTAACCAATTCTGTCCCCTTTCTCAAAACCCTGAGCCCTGTGCATGCTTTCTCAGTCTTGTGGT
GGGACTGGATACAATGACTAACTTCCCCCTCCTCCCCTCTTTAAACACCATTTTCCATGGAGTTCAAAAATTTT
TTTCTTAAACGTTACATATCATAGTGAATGGTTTCCCCAGTGTATATGAATGTTTTAAGTGTCTCCAATAGCTTAT
GCAGTCTAGGAGCTTTCCAATACTCATTTAATTAAGATTTAATCATTTGCTAATGGAAATCTTACCACCTTTTCAT
TTTCCCTCTGTTACCAAATTTTCTAGGAGCTGCTCTACAATTCTGAATTTGCTTTTCTTGCCTCTCTTTA
GTCACCTGTACAGGAGGTTCCCTGCTCAGTAATGATATTGTGAGTTAGGATAATAACTTTTTTTTTTTGTGCTTC
AGATTTAGAAGAAAAGATCCTGTTTCCATTTGAAAGGAACTGTAAGCTTTTATCTTTTAACCAACTGAACAATAC
ACCAAAGCAGCCTAGGGATGAGCATTTCCTTTGAAAGCAATTAGGTTATTCACCTGGTATTAAAACTATTTACTG
TTAAAAATCTGTGACTTCATGAAGTTGATTTTTTAAAGGCAGCATCAAAAAGTAAAAAGGAAGGGAAAAAATAGG
CAGCTTCTCTGCACTTGTTTGGAGCTCCCCAAAACAGGAGCCATGGAGAAGTGGCATCAAGACCGGGCTGCCCTT
TCGAGAACACCCCTGTGGCAGTTCAGAGACACGCTTTTCTACACTGCATGCAGCCCCCTCTTTCCAGCACTGGAAA
GAAGTGGTCTTGAGCCCAGCTGAGAAGCACTTCACACTCCTCTCTCTTGTCTGAATGGTGTGTTGTGTCAGTCTG
CAGCTGTGTATGGTATTATGTCTTATAATCCTGCATCACTTCTATCCTATCCAGTCATATCTAATGTAGAAAATT
AGTTTCCAGTGAAAGTAATATGTAGTGCTTTTATGATATTTGTGTGCAATATCCCCCTCTTCCATTGAGGATATTT
GATGTAAAGGAAAAAAAAAACTCAGTTCCACAATAAAATACAAAAGTGGCAAAGTTAAAAAAAATCTATGTCGG
TGCGGAGAAAGAGGTAATGAAATGGCAGGAATTCGATATCAGCTTATCGATACCGCGACCTCGAGGGGGCCCGTA
CCAG

1075/2777
FIGURE 955

RALSAALGEGGGGGGARRQRGDAGGGAETVPSEIILSPAEEERSGRSETLRRGTAAGRMATVVVEATEPEPSGS
IANPAASTSPSLSHRFLDSKFYLLVVVGEIVTEEHLRRAIGNIELGIRSWDTNLI ECNLDQELKLFVSRHSARFS
PEVPGQKILHHRSDVLETVVLINPSDEAVSTEVRMITDAARHKLLVLTGQCFENTGELILOSQSFSFQNFIEIF
TDQEIGELLSTTHPANKASLTLCPEEGDWKNSNLDHRNLQDFINIKLNSASILPEMEGLSEFTEYLSSESVEVPS
PFDILEPPTSGGFLKLSKPCCYIFPGGRGDSALFAVNGFNMLINGGSEKSCFWKLIRHLDVRVDSILLTHIGDDN
LPGINSMLQRKIAELEEEQSQGSTTNSDWMKNLISPDLGVVFLNVPENLKNPEPNIKMKRSIEEACFTLQYLNKL
SMKPEPLFRSVGNTIDPVILFQKMGVGKLEMYVLNPVKSSKEMQYFMQQTGTNKKDAEFILPNGQEVLDLPISYL
TSVSSLIVWHPANPAEKIIRVLFPGNSTQYNILEGLEKLKHLDFLKQPLATQKDLTGQVPTPVVKQTKLKQRADS
RESLKPAAKPLPSKSVRKESKEETPEVTKVNHVEKPPKVESKEKVMVKDKPVKTETKPSVTEKEVPSKEEPSV
KAEVAEKQATDVKPKAAKEKTVKKEKVKPEDKKEEKEKPKKEVAKKEDKTPIKKEEKPKKEEVKKEVKEIKKE
EKKEPKKEVKKETPPKEVKKEVKKEEKEVKKEEKEPKKEIKKLPKDAKKSSTPLSEAKKPAALKPKVPKKEESV
KKDSVAAGKPKEKGKIKVIKKEGKAAEAVAAVGTGATTAAVMAAAGIAAIGPAKELEAERSLMSSPEDLTKDFE
ELKAEVDVTKDIKPQLELIEDEEKLKETEPVEAYVIQKEREVTKGPAESPDEGITTTTEGECEQTPPEELEPVE
KQGVDDEKFEDEGAGFEESSETGDYEEKAETEEAEEPEEDGEEHVCSASKHSPTEDDEESAKAEADAYIREKRE
SVASGDDRAEEDMDEAIEKGEAEQSEEEADEEDKAEDAREEEYEPEKMEAEYVMAVVDKAAEAGGAEQYGFILT
TPTKQLGAQSPGREPASSIHDETLPGGSESEATASDEENREDQPEEFTATSGYTQSTIEISSEPTPMDEMSTPRD
VMSDETNNEEETESPQEFVNITKYESSLYSQEYSKPADVTPLNGFSEGSKTDATDGKDYNASASTISPPSSMEED
KFSRSALRDAYCSEVKASTTLDIKDISAVSSEKVSPPSKPSLSPSPSPLEKTPLGERSVNFSLTPNEIKVSAE
AEVAPVSPEVTQEVVEEHCA SPEDKTLEVVSPPSQSVTGSAGHTPYQSPTEKSSHLPTIEVKPPAVPVSEFES
DAKDENERASVSEMPDEPVPDESPIEKVLSPLRSPPLIGSESAYESFLSADDKASGRGAESPFEKSGKQGSQPDQ
VSPVSEMTSTSLYQDKQEGKSTDFAPIKEDFGQEKKTDDVEAMSSQPALALDERKLGDVSPTQIDVSQFGSFKED
TKMSISEGTVSDKSATPVDEGVAEDTYSHMEGVASVSTASVATSSFPETDDVSPSLHAEVGSHPHSTEVDSDLS
VSVVQTPPTTFQETEMSPSKEECPRMSISPPDFSPKTAKSRTPVQDHRSEQSSMSIEFGQESPEQSLAMDFSRQS
PDHPTVGAGVLHITENGPTVDYSPSDMQDSSLSHKIPMEEPSYTQDNDLSELISVSQVEASPSTSSAHTPSQI
ASPLQEDTILSDVAPPRDMSLYASLTSEKVQSLEGEKLSPKSDISPLTPRESSPLYSPTFSDSTSAVKEKTATCHS
SSSPPIDAASAEPYGFRAVLFDTMQHHLALNRDLSTPGLEKDSGGKTPGDFSYAYQKPEETTRSPDEEDYDYES
YEKTTRTSDVGGYYYEKIERTTKSPSDSGYSYETIGKTTKTPEDGDYSYEIIEKTTTRTPEEGGYSYDISEKTTSP
PEVSGYSYEKTERSRLRDDISNGYDDSEDGGHTLGDPSYSYETTEKITSFPESEGYSYETSTKTTTRTPDTSTYC
YETAEKITRTPQASTYSYETSDLCYTAEKKSPSEARQDVLCLVSSCEYKHPKTELSPSFINPNPLEWFASEEPT
EESEKPLTQSGGAPPPPGGKQQGRQCDETPPTSVSESAPSQTDSVPPETECP SITADANIDSEDESETIPTDK
TVTYKHMDPPPAPVQDRSPSPRHPDVSMVDPEALAIEQNLGKALKKDLKEKTKTKKPGTKTKSSSPVKKSDGKSK
PLAASPKPAGLKESDVKVSRVASPKKESVEKAAKPTTTPEVKAARGEKDKETKNAANASASKSAKTATAGPGT
TKTTKSSAVPPGLPVYLDLCYIPNHSNSKNVDVEFFKRVRSSYYVVS GNDPAAEEPSRAVL DALLEGKAQWGSNM
QVTILIPTHDSEVMREWYQETHEKQQDLNIMVLASSSTVVMQDESFPACKIEL

1076/2777
FIGURE 956

ATATACATATATGTATATATATGCACATATATATATGTATTTAAAAAATCAAACAAAAAAAACTCATTTATA
CCTGTGTATTTTTTAAAGCTACAATCTGTTCAATGTTTTTAAATCTGTTTATATGACATTGTTAAAATAAAGT
TGGTCTTTTGACGAGAGGGAGGATGTCACGGTCAGTTGTAACCTTGCCTTCACAAGGCAACTGGGGTGGGGGGTG
GGGGTAGTGTGCCTCCTTGACATTTCGTTCAAGTTATAGATTCAATGGAGCTATGTCTTGTTTTAAGTTGCTTTA
ATGCATTGTATTAGATCTTCAAACAGAATAAAGGTTGTTTTGAAACTGACAGT

1077/27.77
FIGURE 957

IYIYVYICTYIYVFKKIKTKKNSFIPVYFLKLQSVQCF

1078/2777
FIGURE 958

TACAACCAGGCTCAACTGTTGTCATGGTAGCAGATTTGCAAACATGAGTGCTGAGGGGTACCAGTACAGAGCGCTG
TATGATTATAAAAAGGAAAGAGAAGAAGATATTGACTTGCACTTGGGTGACATATTGACTGTGAATAAAGGGTCC
TTAGTAGCTCTTGGATTTCAGTGATGGACAGGAAGCCAGGCCTGAAGAAATTGGCTGGTTAAATGGCTATAATGAA
ACCACAGGGGAAAGGGGGGACTTTCCGGGAACCTTACGTAGAATATATTGGAAGGAAAAAATCTCGCCTCCCACA
CCAAAGCCCCGGCCACCTCGGCCTCTTCTGTTGCACCAGGTTCTTCGAAAACCTGAAGCAGATGTTGAACAACAA
GCTTTGACTCTCCCGGATCTTGCAGAGCAGTTTGCCCTCTGACATTGCCCCGCTCTTCTTATCAAGCTCGTG
GAAGCCATTGAAAAGAAAGGTCTGGAATGTTCAACTCTATACAGAACACAGAGCTCCAGCAACCTGGCAGAAATTA
CGACAGCTTCTTGATTGTGATACACCTCCGTGGACTTGGAAATGATCGATGTGCACGTTTTGGCTGACGCTTTC
AAACGCTATCTCTGGACTTACCAAATCCTGTCTTCCAGCAGCCGTTTACAGTGAAATGATTTCCTTTAGCTCCA
GAAGTACAAAGCTCCGAAGAATATATTGAGCTATTGAAGAAGCTTATTAGGTGCGCTAGCATACCTCATCAGTAT
TGGCTTACGCTTCAGTATTTGTTAAAAACATTTCTTCAAGCTCTCTCAAACCTCCAGCAAAAATCTGTTGAATGCA
AGAGTACTCTCTGAAATTTTCAGCCCTATGCTTTTCAGATTCTCAGCAGCCAGCTCTGATAATACTGAAAACCTC
ATAAAAGTTATAGAAATTTTAATCTCAACTGAATGGAATGAACGACAGCCTGCACCAGCACTGCCTCCTAAACCA
CCAAAACCTACTACTGTAGCCAACAACGGTATGAATAACAATATGTCCTTACAAAATGCTGAATGGTACTGGGGA
GATATCTCGAGGGAAGAAGTGAATGAAAACTTCGAGATACAGCAGACGGGACCTTTTTGGTACGAGATGCGTCT
ACTAAAATGCATGGTGATTATACTCTTACACTAAGGAAAGGGGAAATAACAAATTAATCAAAATATTTTCATCGA
GATGGGAAATATGGCTTCTCTGACCCATTAACCTTCAGTTCTGTGGTTGAATTAATAAACCCTACCGGAATGAA
TCTCTAGCTCAGTATAATCCCAAATTGGATGTGAAATTACTTTATCCAGTATCCAAATACCAACAGGATCAAGTT
GTCAAAGAAGATAATATTGAAGCTGTAGGGAAAAAATTACATGAATATAACACTCAGTTTCAAGAAAAAGTCTGA
GAATATGATAGATTATATGAAGAATATACCCGCACATCCAGGAAATCCAAATGAAAAGGACAGCTATTGAAGCA
TTTAATGAAACCATAAAAATATTTGAAGAACAGTGCCAGACCCAAGAGCGGTACAGCAAAGAATACATAGAAAAG
TTTAAACGTGAAGGCAATGAGAAAGAAATACAAAGGATTATGCATAATTATGATAAGTTGAAGTCTCGAATCAGT
GAAATTATTGACAGTAGAAGAAGATTGGAAGAAGACTTGAAGAAGCAGGCAGCTGAGTATCGAGAAATTGACAAA
CGTATGAACAGCATTAAACCAGACCTTATCCAGCTGAGAAAGACGAGAGACCAATACTTGATGTGGTTGACTCAA
AAAGGTGTTCCGGCAAAAGAAGTTGAACGAGTGTTGGGCAATGAAAACACTGAAGACCAATATTCACTGGTGGAA
GATGATGAAGATTTGCCCCATCATGATGAGAAGACATGGAATGTTGGAAGCAGCAACCGAAACAAAGCTGAAAAC
CTGTTGCGAGGGAAGCGAGATGGCACTTTTCTGTCCGGGAGAGCAGTAAACAGGGCTGCTATGCCTGCTCTGTA
GTGGTGGACGGCGAAGTAAAGCATTGTGTCATAAACAACAGCAACTGGCTATGGCTTTGCGAGCCCTATAAC
TTGTACAGCTCTCTGAAAGAAGTGGTGCTACATTACCAACACACCTCCCTTGTGCAGCACAACGACTCCCTCAAT
GTCACACTAGCCTACCCAGTATATGCACAGCAGAGGCGATGAAGCGCTTACTCTTTGATCCTTCTCCTGAAGTTC
AGCCACCCTGAGGCCTCTGGAAAGCAAAGGGCTCCTCTCCAGTCTGATCTGTGAATTGAGCTGCAGAAACGAAGC
CATCTTTCTTTGGATGGGACTAGAGCTTTCTTTTACAAAAAGAAGTAGGGGAAGACATGCAGCCTAAGGCTGTA
TGATGACCACACGTTCTAAGCTGGAGTGCTTATCCCTTCTTTTTCTTTTTTTCTTTGGTTTAAATTTAAAGCCAC
AACCACATACAACACAAAGAGAAAAAGAAATGCAAAATCTCTGCGTGCAGGGACAAAGAGGCCTTTAACCATGG
TGCTTGTTAATGCTTTCTGAAGCTTTACCAGCTGAAAGTTGGGACTCTGGAGAGCGGAGGAGAGAGAGGCAGAAG
AACCCTGGCCTGAGAAGGTTTGGTCCAGCCTGGTTTAGCCTGGATGTTGCTGTGCACGGTGGACCCAGACACATC
GCACTGTGGATTATTTTCAATTTTGTAAACAAATGAACGATATGTAGCAGAAAGGCACGTCCACTCACAGGGACGCT
TTGGGAGAATGTCAGTTCATGTATGTTTCAAGAAATCTGTCTATAGAAAGTGCCAGAAAGTGTTTAACTTGTC
AAAAACAAAAACCCAGCAACAGAAAAATGGAGTTTGAAAAACAGGACTTAAATGACATTCAGTATATAAAATAT
GTACATAATATTGGATGACTAACTATCAATAGATGGATTGTATCAATACCAATAGCTTCTGTTTTGTTTTG
TGAAGGCTAAATTCACAGCGCTATGCAATTCCTTAATTTTCAATTAAGTTGTTATTTTCAAGTTTTAAATGTACCTTCA
GAATAAGCTTCCCCACCCAGTTTTTTGTTGCTTGAAATATTGTTGTCCCGATTGTTGTTAATATTCAATTTTG
TTATCCTTTTTTAAAAATAAATGTACAGGATGCCAGTAAAAAATAATGGCTTCAGAATTAAACTATGAAATA
TTTTACAGTTTTTCTGTACAGAGTACTTGCTGTTAGCCCAAGGTTAAAAAGTTCATAACAGATTTTTTTTGGAC
TGTTTTGTTGGCAGTGCCTGATAAGCTTCAAGCTGCTTTATTCAATAAAAAAACCCTGAATTCAGTGG

1079/2777
FIGURE 959

MSAEGYQYRALYDYKKEREEDIDLHLGDILTVNKGSLVALGFSQGGEARPEEIGWLNNGYNETTGERGDFPGTYVE
YIGRKKISPPTPKPRPPRPLPVAPGSSKTEADVEQQALTLPDLAEQFAPPDIAPPLLIKLV EAEKKGLECSTLY
RTQSSSNLAELRQLLDCTPSVDLEMIDVHVLADAFKRYLLDLPNPVIPAAVYSEMISLAPEVQSSEYIQLLKK
LIRSPSIPHQYWLTLQYLLKHFFKLSQTSSKNLLNARVLSEIFSPMLFRFSAASSDNTENLIKVIEILISTEWNE
RQPAPALPPKPPKPTTVANNGMNNMNSLQNAEWYWGDISREEVNEKL RDTADGTFLVRDASTKMHGDYTLTLRKG
GNNKLIKIFHRDGKYGFS DPLTFSSVVELINHYRNESLAQYNPKLDVKLLYPVSKYQQDQVVKEDNIEAVGKKLH
EYNTQFQEK SREYDRLYEEYTRTSQEIQMKRTAIEAFNETIKIFEEQCQTQERY SKEYIEKFKREGNEKEIQRIM
HNYDKLKSRISEIIDSRRRLEEDLKKQAAEYREIDKRMNSIKPDLIQLRKTRDQYLMWLTQKGV RQKKLNEWLGN
ENTEDQYSLVEDDEDLPHHDEKTWNVGSSNRNKAENLLRGKRDGTFLVRESSKQGCYACSVVVDGEVKHCVINKT
ATGYGFAEPYNLYSSLKELVLHYQHTSLVQHND SLNVTLAYPVYAQQRR

1080/2777
FIGURE 960

GCTCGGAGCCCGGAGCGTGCCTCGGCGGCCTGTCGGTTTTTCACCAATGGAGCAGCTGAGCTCAGCAAACACCCGCT
TCGCCTTGACCTGTTCTTGGCGTTGAGTGAGAACAATCCGGCTGGAAACATCTTCATCTCTCCCTTCAGCATTT
CATCTGCTATGGCCATGGTTTTTCTGGGGACCAGAGGTAACACGGCAGCACAGCTGTCCAAGACTTTCCATTTCA
ACACGGTTGAAGAGGTTCAATTCAAGATTCCAGAGTCTGAATGCTGATATCAACAAACGTGGAGCGTCTTATATTC
TGAAACTTGCTAATAGATTATATGGAGAGAAAACCTTACAATTTCCCTTCCTGAGTTCTTGTTTTCGACTCAGAAAA
CATATGGTGCTGACCTGGCCAGTGTGGATTTTCAGCATGCCTCTGAAGATGCAAGGAAGACCATAAACAGTGGG
TCAAAGGACAGACAGAAGGAAAAATTCCGGAAGTGTGGCTTCGGGCATGGTTGATAACATGACCAAACCTTGTGC
TAGTAAATGCCATCTATTTCAAGGGAAACTGGAAGGATAAATTCATGAAAGAAGCCACGACGAATGCACCATTCA
GATTGAATAAGAAAGACAGAAAAACTGTGAAAATGATGTATCAGAAGAAAAAATTTGCATATGGCTACATCGAGG
ACCTTAAGTGCCGTGTGCTGGAAGTGCCTTACCAAGGCGAGGAGCTCAGCATGGTCATCCTGCTGCCGGATGACA
TTGAGGACGAGTCCACGGGCCTGAAGAAGATTGAGGAACAGTTGACTTTGGAAAAGTTGCATGAGTGGACTAAAC
CTGAGAATCTCGATTTTCATTGAAGTTAATGTCAGCTTGCCCAGGTTCAAACCTGGAAGAGAGTTACACTCTCAACT
CCGACCTCGCCCGCCTAGGTGTGCAGGATCTCTTTAACAGTAGCAAGGCTGATCTGTCTGGCATGTTCAGGAGCCA
GAGATATTTTTATATCAAAAATTGTCCACAAGTCATTTGTGGAAGTGAATGAAGAGGGAACAGAGGCGGCAGCTG
CCACAGCAGGCATCGCAACTTTCTGCATGTTGATGCCGAAGAAAATTTCACTGCCGACCATCCATTCCCTTTTCT
TTATTCGGCATAATTCCCTCAGGTAGCATCCTATTCTTGGGGAGATTTTCTTCCCCTTAGAAAGAAAGAGACTGTAG
CAATACAAAAATCAAGCTTAGTGCTTTATTACCTGAGTTTTTAATAGAGCCAATATGTCTTATATCTTTACCAAT
AAAACCACTGTCCAGAAAAA

1081/2777
FIGURE 961

MEQLSSANTRFALDLFLALSENNPAGNIFISPFSSISSAMAMVFLGTRGNTAAQLSKTFHFNTVEEVHSRFQSLNA
DINKRGASYILKLANRLYGEKTYNFLPEFLVSTQKTYGADLASVDFQHASEDARKTINQWVKGQTEGKIPELLAS
GMVDNMTKLVLVNAIYFKGNWKDKFMKEATTNAPFRLNKKDRKTVKMMYQKKKFAYGYIEDLKCRVLELPYQGEE
LSMVILLPDDIEDESTGLKKIEEQLTLEKLHEWTKPENLDFIEVNVSLPRFKLEESYTLNSDLARLGVQDLFNSS
KADLSGMSGARDIFISKIVHKSFEVNEEGTEAAAATAGIATFCMLMPEENFTADHPFLFFIRHNSSGSILFLGR
FSSP

1082/2777
FIGURE 962A

CCACGCGCGCGCCGCTCGGTGCAGACCATGAATTACGTGGGGCAGTTAGCCGGCCAGGTGTTTGTACCCGTGAA
GGAGCTCTACAAGGGGCTGAATCCCGCCACACTCTCAGGGTGCATTGACATCATTGTTCATCCGCCAGCCCCAATGG
AAACCTCCAATGCTCCCCCTTCCACGTCCGCTTTGGGAAGATGGGGGTCTGCGCTCCCGAGAGAAAAGTGTTGA
CATAGAAATCAATGGGGAATCTGTGGATTGTCATATGAAATTGGGAGATAATGGAGAAGCATTGTTTGTTCAGA
AACAGATAATGATCAGGAAGTTATCCCTATGCACCTGGCCACCTCCCCATCCTGTGCAGAAGGAGCTTCGAGAAT
GGAATGCCAGCTGAAAAGGGGCTCTGTGGACAGGATGAGAGGCCTGGACCCCAGCACGCCAGCCCAAGTGATCGC
TCCCAGCGAGACGCCGTCAAGCAGCTCTGTAGTAAAGAAGAGAAGAAAAAGGAGGAGAAAGTCACAGCTGGACAG
CCTGAAGAGAGATGACAACATGAACACATCTGAGGATGAGGACATGTTCCCATCGAGATGAGCTCGGATGAGGC
CATGGAGCTGCTGGAGAGCAGCAGAACTCTTCCTAATGATATACCTCCATTCCAAGATGATATTCTTGAGGAAAA
CCTCTCCCTGGCTGTGATTTACCCTCAGTCAGCCTCATACCCTAATTCCGATAGAGAGTGGTCACCCACTCCCAG
TCCTTCCGGTTCCCGACCTTCAACACCTAAAAGTGATTGAGAATTGGTCAGCAAGTCCACGGAAGGACAGGGCA
GAAGAACCCAGAAATGCTTTGGCTGTGGGGAGAGCTGCCGAGGCTGCTAAGTCTTCTTCTCCACACAAGATGAA
AGAGTCCAGCCCATTGAGCAGTAGAAAAATTTGTGATAAAAGTCACTTTCAGGCCATTACAGCGAATCTTCAGA
CACTTTTAGTGACCAATCGCCAACCTCTGGTCGGTGGGGCACTTTTGACCAGAACAAGCCTCAGACAGAAATGCA
GTTTGTGAATGAAGAAGACCTGGAGACCTTAGGAGCAGCAGCGCCACTCTTGCCCATGATCGAGGAGCTCAAACC
CCCCTCTGCCAGTGATGTCAGACAGCAAACAAGACGGATTCTCCTTCCAGGAAAAGAGATAAACGAAGCCGACA
TCTTGGTGCTGACGGCGTCTACTTGGATGACCTCACAGACATGGATCCTGAAGTGGCGGCCCTGTATTTTCCCAA
AAACGGAGATCCTTCCGGACTCGCAAAACATGCAAGCGACAACGGAGCCCGGTGAGCCAACAGTCCCCGCAGTC
GGTGGGCAGCTCGGGCGTGGACAGTGGCGTGGAGAGCACCTCGGACGGGCTGAGGGACCTCCCTTCCATCGCCAT
CTCCCTCTGCGGGGCTCAGCGACCACCGGGAGATCACGAAAGATGCATTCTGAGCAAGCTGTGTTCATATCA
ACAGTTTGTGGACAACCCCGCTATTATCGATGACCCCAATCTCGTGGTAAAGATTGGGAGTAAATATTATACTG
GACAACAGCAGCACCCCTCCTCCTGGCAATGCAGGCCTTCCAGAAACCTTTGCCAAAGGCCACTGTGGAATCTAT
CATGAGGGATAAAATGCCCAAAAAGGGAGGAAGATGGTGGTTTTTCATGAGGGGAAGAAACACCACAATCAAGGA
GGAAAGTAAGCCAGAGCAGTGCTTGGCTGGCAAGGCCCATAGCACCGGAGAGCAACCGCCGAGCTCAGCTTGGC
CACCAGGGTAAAGCATGAATCATCTCCAGTGATGAGGAGCGCGCAGCTGCCAAGCCATCAAACGCAGGCCACCT
CCCTCTTCTGCCTAATGTCAGCTACAAGAAGACTCTCCGGCTGACTTCCGAGCAGCTTAAAAGCTTGAAAGTTGAA
GAATGGCCCCAACGACGTGGTTTTTCAGTGTCAACACGCAGTACCAAGGCACGTGCCGCTGTGAGGGCACCATCTA
TCTGTGGAACCTGGGATGATAAAGTCATCATTCTGATATTGATGGGACAATTACCAGATCAGATACTCTTGCCA
CATTTTGGCCACCCTTGGGAAGGATTGGACCCATCAGGGCATCGCTAAGCTGTACCATAAAGTGAGCCAGAATGG
ATATAAATTTCTCTACTGTTCTGCCCGTGCCATCGGGATGGCGGACATGACGCGGGGCTACCTGCACTGGGTCAA
CGAGAGGGGCACGGTGCTGCCCCAGGGGCCCCCTGCTGCTGAGTCCCAGCAGCCTCTTCTGCCCCTGCACAGAGA
AGTGATTGAAAAGAAGCCAGAAAAAGTTAAAGTCCAGTGTTTGACAGACATCAAAAACCTGTTTTTCCCAACAC
AGAACCCTTTTATGCTGCTTTTGGAAAACCGACCAGCTGATGTGTATTATACACAAGCAAGTAGGAGTGCTTTGAA
TAGAATATTTACCGTCAACCCATAAGGAGAGCTGGTACAGGAACATGCAAAGACCAACATCTCTCGTATGTGAG
ACTCTGTGAAGTAGTCGACCACGTTTTTCCCGTTGCTGAAAAGAAGCCATTCTTCAGACTTCCCTGTTCCGATAC
CTTCAGTAACCTTACCTTTTGGAGAGAGCCACTGCCACCTTTTGAAAACCAGGACATTCTGCTGCTCAGCGTA
AAATGTCCCAAGCAGCCTCTTGCCAGCAGTGACAGAGCCTGGTTGTACCCATTAAAGGATAGGTCTCCCCGGAGT
GCACAGCTCCACCTGGGAGCCTGGCGCGTCATCATTGGCCTGACAGCAGAGAGAATTGAGAAGCATTCTCCCT
GCCCCACCCCGGGGCTGACATTTCTAAGCAAGATAGGAAGGGAGCACTTTCTAGGCTAGGAGTTGGGTGCATTG
TACCGTGAAAAGCATTCTCAGTTGTGGCTTAATGCCAGTTACGACGCTGCCTTTCCGGCCTGCTCCAGCAAGTA
GCTACTGGTTACAGTGACGTTTTGGGGCTGTGAAACCTAGGCAGAAGGCGGCTGTCTGAGGGCTGTCCCCGCCAG
GACAGGGTCAATCGAGGAATGCCAGATGTGCACGTTTTTGGCAAAGTAGGGGGCACATTTCCATTATAGCAATG
TTAGTGCCACCACCTTCTGAACACAGTGGGGAGGGCTGTGAAGGCTCATGTGACCTGGATCTGAGGTCTCTGATA
GAAATCTGGACGCCACCGGGTCCAGGCCTGGCCTCAGACTTGGCCTGTGGATGGGCCCCCTTACAGTATTTGCTG
ACTAGTCTCATTTTTTAGGTGATAAGTTTTCTTTAATTCCTTTGGTTAAAGATAGTCTATTTTCATTGGCATATCT
CCCCCAGTTTTTGTGGCTCAAGGCTGGAATATTTATGCCCTTAATATATCTATGGCAGACATTTAAGAATGCGCT
TTATCTAGCTCATGGTAACTTTGCAACGCCTTAGATTAAATGACAGTAAATATTACTAAGGCAGTATTTTGAAT
GAGTTTGACACTGCCGGCTTCCTTCCATCCAGCGAGGTGGTGTGACAGTGTGGACTTGAGCACACTTATGCCAA

1083/2777
FIGURE 962B

ATGATAATGATACTGACTTCTGTTGGGAGCTCTCCAAAGAACTGGTTGGTTTTAAGAAAATAGTTTCAAGAAGT
TCAACTATATTCTTTTAGATATTATGTATTGTTTTACTCTGATTAGGTTACTGTGATAGGCATTTATTCATATTC
TTTCTATACCACTGTCAATTAATATATTAAAAAGATGTATGTGTTAGACTATCGAAAGGGCCTTATTCTCTCTTC
TCATAGACTGACCTTCTTTTGAATTTCTGAGTCATTTATTTTCCTTAGCTTTTTCCACTCAAATTAAGGGCAAG
CGAAAAAGTAATAATTTGGCATTCTTTAAGCCTACAGAATGTGATTCTTTCACCTGTTTTATTACACTGGCTCGTG
GACAGAACAATTTGAAAAGTGAAAGAATTATTTTGGTAAAAGATTTTGCTTTACTTTTTCGAAGCATTATTTTTTT
AAAGAGTGTTTTACTCCAACGATTGAAACATTTTCCTATTTAAATTTTCATCGTTAGAATCACAGGAGGCAAAAAA
TGGAACGGTTGAATGAAATTTTACTCTTCTGTGAAAGAAAATCCACAGAGTTGTTGCCTCCGTTGTAGTTGGTG
GGCCCCGTTAGCATTGGATGCCTTTGCCAAATGGTTCATGTGGACACACAAAGGCAAACAGATCTGCCATCGATC
GCAGATTTCTGTAGAAACACGGATGTGCATGTGCAGATTCCCTTTTGCAGGTATTAAAAATAATTAATAATAGTC
CTGCCTGAGGTTGCAGTGAGCCGAGCTTGCACACTGCACTCCAGCCTGGGTGACAGAGTAAGACTCCATGTCAA
AAAAAAAAAAAAAAAAAAAAAAAAAGTCCTGCCTTAACCTAACTCCTCTGCGCTTGTTCACTAGTAACCTAAAAGAGGCTA
TATTCATTCTTTATGCAATGAGGGTATTTTTGAGTGAATTTTAACTGCTCTGAACTAAGTATAAGCTCATGGGCC
TGCAAAGGTTGAGACGGTTTCTCCTTTGCACCCAGGAGGAACCTTTGGCTGCGAGAATGGGGGGATGTATCCCTCA
TGCAGTTGGCATCCAGGCAGCCCTCTGCAGCAGCACACCCTGCAGGCGGAGTTTTTCAAGGATGCAATTTTGGAT
CCCGAATTTTGATGTACCTTAAACTTCCACATCACTGCACCCTGAAACAGAGCATGCTTTCCAGAAAAGTCACACT
CTCAGATCTGTGTCAAGTTCAATGTGAGCCCTGGCAAGGCTGGCATATTAAACACCTGCCTTCTGGCTTCTGAAAG
TGAGATTTGTATATGGGCTGCACTCACGCATATACGAGTTGGTTTATCTTTGTGTACATGACTATAACCCAGTGA
TGCTGAGGTCATGTGCTGGAATGCTGTATTTGGACCACACATTTCAAAGTTGCCCTATGGAAATGAATCCTACTT
AGTGACAAGTCATCAAAATGTTTGTACATGTGATGAAGACAAATATGTATACCTGGCATAGAGAAAAATATATAC
CTGGTACATTGGAGAAAAATAATTACACTTTCAAAGAGAATTCCTTTGCAATTTTATGTTTGGATCACCCTGT
AAGCACACTTTATTTGCATTTGATCTGTATTTGTATATGCTGATGCAATGATAAAAATCACTGTAATACTTCATT
GTGTTGTACTGGATGCAAAGCTAGAAAATATTGCAATAAATGAGACCGATGAAAGAC

1084/2777
FIGURE 963

CTCTTCTCACATCAGCGGGTCCAGGCCCAACCGACAGACTATGGGGGCTCCTTCACCAGGCGCTGCGTGGAGTGG
CTGCTGGGCCTCTACTTCCTCAGCCACATCCCCATCACCCCTGTTTCATGGACCTGCAGGCGGTGCGTGCCGCGGAG
CTCTACCCAGTCGAGTTTAGAAACCTGCTGAAGTGGTATGCTAAGGAGTTCAAAGACCCACTGCTACAGGAGCCC
CCAGCCTGGTTTAAGTCCTTTCTGTTTTGCGAGCTTGTGTTTCAGCTGCCTTTCTTTCCATTGCAACGTATGCC
TTCCTCAAAGGAAGCTGCAAGTGGATTGGAATCCTGCAATCATCTACTCTGTTACACCATGACAACCTTAATT
CTGATACTCTCCACATTTCTGTTTGAGGATTTCTCCAAAGCCAGTGGTTTCAAGGGACAAAGA¹CCTGAGACTTTG
CATGAACGGTTAACCCTTGTGTCTGTCTATGCCCCCTACTTACTCATCCCATTTCATACTTTTAATTTTCATGTTG
CGGAGCCCCTACTACAAGTATGAAGAGAAAAAGAAAAAATGAAGGAAACAACCACTGGCCCCAGGGTAGAGAT
GCCTACAGGGTGGTTGCTTGTGGATACATACAGGAACACTGCTCAGAACCCACGTCTTCAGCAGCATTTGAAAC
ACTGGCAGCAATGCACAAGAGCAAGATGGTGTGAGGAACCATGTCAAACCCCTCACCTTCTTCCATTTTTTTTTT
TTTTTGAGACAGTCTCACTCTGTTGCCAGGCTGGAGTAAAGGGCAGTGGCATGATCTCGGCTCACTGCAACCTCC
GCCTCCTGGGCTCAAGCCATCTTCCTTAGCCTCCCAAGTAGCTAGA²ACTACAGGTGTGTACCAACACGTATGGCT
AATTTGTTTTGTTTTTTTTTGTGTGTGTGGAGACAGGGTTTTGCCATGTTGCCAGGTTGGTCTCGAACGCCTAGG
CTCAAGTGATCTGCCCACCTCAGTCTCCCTAAGTGCTGGGATTACAGACGTGAACCACTGGGCCCCAGCCCCAAACC
TTCACCTTCTAAGGGCACTGGGATGAACAGACCGATCGGCTTGAGGGTGGGCAAAGGGGTGTGGGCTAGGTTATA
AGGAAGTGGTACCAAATAACTGTGTTGCCTGAGTTCCACCGCAAGATTACTAAAAGCAGGACCAGACCAGAACT
GCTAAAGAACATGGCCTGTTTGACATGTTTCATGAGTCACCTGACCCACAGCATATATGCTTATGACTAAACCCTC
CACTCCTGATTCTCAAGAGTGATCACCTGTCAGCAAAATGAATAGTGGGATATTTTGGGCCATTTTAAATGTGA
AATTTTGCTCTTTAATGTTAATTCAAACTATATCAATGTTTTCTTGTTCACCTCTAACCCAAGGAAAAAAG
AGAAAACATACTATGCAAAGGAAGTTTAAACTTAAGTTTTCTTAAGGGTCAGCCCAACAATGACTTTCAGTCAA
ATGGATTAAACTGGAAAATGTTTTGTCTGTGTAAACAGATCATCTAGGCGAAAGTTTTTTTTGTGTGTTT
GCTTTTAAATTAGTTTATTTCTAAATCTTAGTCTTCCACATTTCTAGAGGCCACCTGACACAAGTCCCTGTATCT
GAAGTCTAGCATCTCAAGGCTGATCTGGAAGTGTGCTAGTATGCTCCCTAGTGGATAACTTAATCTTTAATACA
GTTCCGTCAATCCCATCTTGTTTTCAGAAGAGAAGGTGGCTACAGCCAGGCATAACTTATCCACTGTGTGCATAG
AGGGTCTCTTCACGTTGATGCTTGGCATTCCATCAGCTTCTCTAAGTCTTTGCTCAAGTTCAAGGTTAAATGA
TGTTAGACAACAGGTCCCAGTCAGTCCCCTCTATTTTACCCATTTTGCTCACAAGCCATATTGGCCCGATTAGT
GGTACTGTCTGACTCACGTGTGTGATCCAAATAAAGGTAGCTGCCGGAATT

1085/2777
FIGURE 964

GAAAGGACCAGCCAGGTCTGGTGTGGAGGTCCTATTTAATGAATTAGAAATTCCCGTGGAAGAATACTCCTTTGG
TAGATCAAAGATATTCATCCGAAACCCAAGAACATTATTCAAATTAGAAGACCTGAGGAAGCAACGCCTGGAGGA
CTTGGCCACTCTCATTGAGAAGATATATCGGGGGTGGAAATGCCGCACACACTTCCTGCTAATGAAAAAAGCCA
AATTGTGATTGCCGCCTGGTACAGGAGATATGCGCAACAAAAGAGGTACCAGCAGACAAAGAGTTCCGCCTTAGT
AATTCAGTCTTATATCGGGGGTGGAAAGGCTCGAAAAATTCTGCGGGAACCTGAAGCATCAAAAGCGCTGTAAGGA
AGCAGTCACGACCATTGCTGCATATTGGCATGGGACCCAGGTACGTAGAGAATACAGGAAATTCTTCAGAGCCAA
TGCTGGAAAGAAAATCTATGAGTTTACGCTTCAGAGAATTGTGCAAAAATACTTCTTGGAATGAAAAATAAGAT
GCCTTCCTTATCTCCAATAGACAAGAAATTGGCCCTCAAGACCTTACTTATTCTTGGATTCTACTCACAAGGAGCT
AAAAAGGATTTTCCACTTGTGGAGGTGTAAAAAATACAGGGACCAATTCACAGACCAGCAGAAACTTATTTATGA
AGAGAACTAGAAAGCCAGTGAACCTCTTCAAAGACAAGAAGGCTTTATACCCATCTAGTGTTGGGCAACCATTTCCA
AGGGGCTTACCTGGAAATCAACAAGAACCCCAAGTATAAGAACTCAAAGATGCCATTGAAGAAAAGATCATCAT
TGCTGAAGTCGTGAACAAAATTAACCGTGCTAATGGGAAGAGTACATCTCGGATTTTCCTCTTAACAAACAATAA
TCTCCTTCTTGCTGACCAAAAGTCTGGACAAATCAAGTCAGAGGTTCCACTGGTGGATGTGACCAAGGTATCAAT
GAGCTCACAAAATGATGGCTTCTTCGCCGTCCACCTCAAAGAGGGCTCAGAAGCAGCTAGTAAAGGAGACTTTCT
CTTCAGCAGTGATCACCTGATTGAAATGGCCACCAAGCTCTATCGCACAACTCTCAGCCAAACCAACAGAGCT
CAATATTGAGATTTCCGATGAGTTCTTGGTACAGTTCAGACAGGACAAAGTATGTGTGAAGTTTATTAGGGAAA
CCAGAAAAATGGGAGTGTCCCAACATGTAAACGAAAAACAACCGTCTCCTTGAAGTTGCTGTCCCTTAAGTGGC
GCCTCCTCTCTACTTTTCATGGACTTGTTCCTTTGTAATAGTGCAATTTGGTTTTGTTTTATTGGGGTTCATTGT
ATGTTTGGGAATCACCAAGGCTTTTAGAGTTCTTTGGCAAAATAAAAATATTTGACTAATCAATTTTATTATT
GGAATAGTTTTAACCTTTCAAATACATGTTCTGTCTGGAGCAGGATTGTAGAACTAACAGTGTCTATTTTCAT
GTCTGATGTGTTCTTCCTTTAGTCATCATGTTAGGTCTGTGTACCCTAAATCAGCATATTACTCATAAATCATT
ATTAATATAAGCATAGGAAATGGTCTTAAAAGATACTGCATTCAATTCATCAGATATTTATTCCATGCCTACTCTA
TGCTAGGCACTGTGCTAGATGGTATGAAAACCTTATTAGGAACCTTTTTGTTTTTGGAGACCATTGCATTCTGGCTG
GTTTGTGCTGGTTTAACGACATCTAAGAAGGTTTAGAAATGGTGAGACCAAAACAATAACTGTTAATGATGGACA
GCATTATTAGGAACCTGTAGTATGATATTTAACAATATAGGCTTCAAGAAGGGCTGGTCTCAAGAGGGGGCAGA
AATGAATGACCAGGTTAAATCCCTCTACATGTGGTTTCTGTTTGAAAAAAGAAAAGTACATTTGAACAGGACT
TTTAATTTGTTTAAACTCTGGTAATTACTTGTAACAGTAGAAAATAGAAGTCATTCTTATTTTAGAAAAAGT

1086/2777
FIGURE 965A

GGTGAACAGCTCAAATCCATTTTTTACATCACAGACCAAAGCCAATGGGAATCCTGCTTGTTTCGGCCCAGTTGCA
GCATGTCTCGCCACCCATTTTTCCAGCTCATTTAGCAAGTGTGTCAACTCCATTGTTGTCTCAATGGAAAAGTGT
CATAAATCCAAATATAACTTCTCAGGATAAAAATGAACAAGGTGGTATGTTATGTTCCCAAATGGAAAATTTACC
TAGTACTGCCTTGCCAGCACAAATGGAAGATCTAACCAAAACAGTTCTGCCTTTGAATATTGACAGTGGCTCAGA
TCCTTTTCCTTCCTTTACCTGCAGAAAAGTAGTTCAATGTCTCTCTTCCCTTCACCAGCAGATAGTGGGACTAATTC
TGTTTTTTCCCAACTGGAAAATAATACAAATCATTATTCCTCACAGATTGAAGGAAACACTAATTCCTCCTTTCT
AAAGGGGGGTAATGGTGAAAATGCAGTTTTTTCCTTACAAAGTGAATGTTGCAAATAACTTCAGTAGCACCAATGC
CCAACAGTCTGCACCTGAAAAAGTTAAAAAAGACCGTGGGCGGGGCCCAAATGGGAAGGAAAGAAAACCTAAGCA
CAACAAAAGGGCTAAATGGCCTGCAATTATCAGAGATGGGAAATTTATCTGTAGCAGGTGTTACAGGGCTTTTAC
TAATCCCAGATCACTGGGTGGGCACTTATCCAAGCGATCTTACTGTAAACCACTGGATGGAGCCGAAATTGCTCA
AGAACTTCTACAGAGTAATGGACAGCCTTCTCTTCTTGCCAGCATGATTCTCTCCACAAATGCAGTAAATTTGCA
GCAGCCACAACAATCTACCTTCAATCCAGAAGCATGTTTTAAAGATCCATCATTTCTACAGCTTCTTGCTGAAAA
TCGCTCGCCAGCATTTTTACCAAATACATTTCTCGATCTGGTGTGACTAACTTTAATACCAGTGTGAGTCAAGA
AGGTAGTGAAATTATTAAACAGGCTTTGGAACTGCTGGCATTCCCAGTACATTTGAGGGTGGCGAAATGCTTTC
TCATGTTTCAACAGGTTGTGTCTCTGATGCATCACAAGTAAATGCAACGGTGATGCCAAATCCAAGTACCACC
CCTGTTGCACACTGTATGCCATCCAAACACCTTGCTGACCAACCAGAATAGGACGTCAAACCTCCAAAACCTTCCTC
CATTGAGGAATGTAGCAGCTTGCTGTTTTTCCAACGAATGACTTACTACTGAAGACTGTTGAAAATGGTTTTGTG
CTCTAGTTTCATTTCTAATTTCTGGTGGGCCATCACAATTTTACCAGTAACAGTTCTCGTGTCTTCTGTTATAAG
TGGTCTTCAGAACACAAGATCCAGTCATTTAAATAAAAAGGGAACAGTGCTTCTAAGAGAAGAAAAGAAAGTTGC
TCCTCCACTAATTGCACCTAACGCTTCCCAAACCTTGGTAACAAGTGACTTAACAACAATGGGACTCATAGCAAA
GAGTGTGAAATCCCACTACTAACCTTCATTCAAATGTAATCCAACCTTGTAACCTCAGAGTTTGGTGGA AAA
TCTAACACAGAAATTAAATAATGTAAACAATCAGTTATTTATGACTGATGTAAAAGAGAATTTCAAAAACAGTCT
TGAGTCCCATACAGTGTAGCCCCCTTTAACATTAAAACTGAAAATGGTGATTCCCAAATGATGGCTTTGAATTC
ATGCACAACCTTCAGTAAATTTCTGATTTGCAGATTTCTGAAGACAATGTTATACAAAACCTTTGAAAAGACTCTTGA
AATTATTA AAACTGCTATGAATTTCTCAAATACTTGAGGTAAAAAGTGGATCTCAGGGTGCTGGTGAAAACCTTCACA
AAATGCTCAAATAAATTATAACATTCAGCTTCCTTCAGTAAACACTGTGCAAAAATAACAAATTACCCGATTCTTC
TCCGTTTTCTCCTTTTATAAGTGTGATGCCAACAAAAAGTAACATTCCTCAGTCTGAAGTATCACATAAGGAGGA
TCAAATACAGGAAATTTTGAAGGCTTACAGAAATTAAATTAGAAAATGACCTATCCACTCCAGCATCCCAATG
TGTACTGATAAATACATCAGTGACACTGACTCCCACGCCTGTTAAATCAACTGCAGATATCACAGTTATTTCAGCC
AGTTTCTGAAATGATAAACATTCAATTTAATGACAAAGTTAATAAACCTTTTGTGTGTCAAAACCAAGGCTGTAA
CTACAGTGCTATGACAAAGGATGCACATTTTAAGCACTATGGTAAAATTCATCAATACACTCCAGAAATGATTCT
TGAAATTAAGAAGAATCAATTGAAATTTGCTCCCTTTAAATGTGTAGTACCTACATGTACAAAAACATTTACAAG
AAATTCTAACCTCCGGGCACACTGTGAGTTGGTGCATCATTTTACAACCTGAAGAAATGGTAAAGTTAAAAATTAA
AAGGCCTTATGGAAGAAAATCTCAGAGTGAAAATGTGCCGGCCTCACGAAGTACACAAGTGAAAAAACAGCTAGC
TATGACAGAGGAAAAATAAAAAGGAATCTCAGCCTGCTTTAGAATTGAGAGCAGAGACCCAAAATACCCACAGTAA
TGTAGCAGTGATCCCAGAAAAACAACCTTATAGAAAAAAAAGTCTGACAAAACAGAAAGTTCTTTACAAGTGAT
TACAGTTACTTCAGAACAATGTAATACAAATGCACTCACAACACACAAACCAAGGACGGAAGATTAGGAGGCA
TAAAAAAGAAAAGGAGGAGAAAAAACGAAAGAAGCCAGTTTCCCAATCCCTTGAGTTTCCAACAAGATACAGTCC
TTACAGACCTTATCGATGTGTTTACCAGGGATGCTTTGCTGCCTTTACGATACAGCAAAATTTGATTCTCCATTA
CCAGGCTGTACACAAATCAGATCTACCTGCATTTTACGAGAGGTGCAAGAGGAAAGTGAAGCTGGTAAAGAAAG
TGAAGAACTGAACTAAACAACTTTGAAAGAATTTGATGTGAGGTAAGTGACTGTTCTCGAATTTTCCAAGC
AATTACTGGCCTAATACAACTACATGAACTTCATGAAATGACTCCTGAAGAAATTTGAAAGTATGACTGCTTC
AGTGGATGTTGGGAAGTTTCCATGTGACCAGTTAGAGTGTAATCTTCATTTACTACATATTTGAACTATGTTGT
TCATCTAGAGGCAGACCACGGGATTGGACTAAGGGCAAGTAAACAGAAGAAGATGGTGTATACAAATGTGATTG
TGAAGGCTGTGACCGTATATATGCAACCCGGTCAATCTCCTCCGACACATTTTTAATAAGCATAATGACAAACA
TAAGGCTCATTTGATTTCGTCCAAGAAGATTAACACCAGGCCAGGAAAATATGTCAAGCAAGGCCAAACCAAGAAAA
ATCAAAGTCTAAACATCGGGGGACGAAGCACAGCAGATGTGGAAGGAAGGAATAAAAAATGCCCAAGACCAAACG
AAAGAAAAAAAATAATTTAGAAAACAAGAATGCAAGATTGTGCAGATTGAAGAAAATAAGCCTTATTCTCTGAA

1087/2777
FIGURE 965B

ACGTGGGAAGCATGTATATTCTATAAAGGCTAGAAATGATGCCCTGTCTGAGTGTACAAGCAGATTTGTAACCCAA
GTATCCATGTATGATAAAGGGATGTACTTCAGTTGTTACAAGTGAAAGCAATATAATTAGACATTATAAGTGCCA
TAAATTATCTAAGGCATTTACATCACAAACACCGAAATCTTCTTATTGTATTCAAACGGTGTGCAACTCACAAAGT
AAAGGAAACGTCTGAGCAAGAAGGTGCTAAGAATGATGTGAAAGATTCTGACACGTGTGTATCAGAGAGCAATGA
TAATTCAGAACAACAGCTACAGTTTCACAAAAGGAAGTTGAAAAAATGAAAAAGATGAAATGGATGAACTAAC
AGAATTGTTTATTACAAAATTAATAAATGAAGATAGCACAAAGTGTAGAGACCCAAGCTAATACTTCTTCAAATGT
AAGTAATGATTTTCAGGAAGATAACCTCTGCCAGTCAGAAAGACAAAAGCAAGTAATTTGAAGAGAGTTAATAA
GGAAAAAATGTCTCACAAAATAAAAAAGGAAAGTTGAAAAAGCTGAACCAGCATCAGCAGCTGAGTTAAGTAG
CGTGCGTAAAGAAGAAGAACTGCTGTTGCCATTCAAACCATTGAGGAGCATCCTGCATCTTTTTGACTGGAGCTC
TTTTAAGCCAATGGGATTTGAAGTATCATTTCTGAAGTTTCTTGAGGAGTCTGCAGTGAAGCAGAAGAAAAATAC
TGACAAAGACCATCCGAATACTGGAAAACAAAAAAGGATCCCATTCAAATTCAAGAAAAATATTGATAAGACTGC
TGTGACTAGTGGAAATCATGTATGTCCTTGTAAAGAAAGCGAAACGTTTGTACAGTTTGCCAATCCATCACAGCT
TCAGTGCAGTGATAATGTAAAAATTGTTTGTAGACAAGAATCTTAAAGATTGCACTGAGCTTGTCTTAAAGCAACT
TCAGGAAATGAAACCTACCGTCAGTCTGAAAAAAGCTTGAAGTACATTCAAATGATCCAGATATGTCTGTTATGAA
AGATATCAGTATAGGTAAAGCCACAGGCAGAGGTGAGTACTGATAATTAATGTAGTATAAATACATCATTACCA
TTTTATTTTAAATAGGAAGCCATCAAGCATGCTAGAATTGTGAACTTTCATTATATTTTTTTGTTGTTGACATG
AATTAACCTGGCCAAAAACAAAAAGAAAAAACAATGACATTTGTCATGTAAACTTTTTTTTATCCCTATG
GGACTTGAGGAACAGAATCAGTACTTCAGTTATTGTAAATAGTGAGCTAAACCTCAAATTTCTATCACCCAGTTG
CCCTTTTCATGAATAACAATTATCTGTGTGATTGGTATGTTTCACCAGGTCACTGCTCATGTATAACAGTACT
CTTTATTTGTAGATACCTTTTTTGTATATATTTATTATTGTAAATCATGTGCTGCCACCAGCAGTCTGTAAGTCT
AAACTATTAAATGACACATTTATATTTGGAATTTTAATTTTAACTAAGCGATCAAGTTTTTTAAATTGTTCTTT
TATTGTTTTAAATTAAGAATTTTTGAACTAAAACCAGAACTCTGCCATAGTTCATTGATTTTTACATGAAACA
TTTATTTACAAGATGATATCAAGATTACTTTTCACAAAATAGGCACATTATATCAACACTTTGCTCTGCTTTGTA
AATTTGCCATCCAGGATTTTGGGGTGGTATTTCATGTGAAATTAAGCAGATTCTCTAGCAGTTTCTATAGCTAC
AGTTTTTTTTTTTCATTGCTTCTAATTGGATATAGTTACTATGAGTCCATGAAATACAATGGAAATGTGAATAAA
GAATTTACTACATTGAAGATTTTAAACATTTGGTATTAAAAAATCCTTTGTGAATGTGATAGAAAACCTAGTA
GTGTGGAGCAGTGTAATATTTGAGGTGGTGATTGTGGAAGTAGCCAGTATTGCCTTAAATAAAATCACATTTT
ATTTCTTGTTTTATACATGTGATCTTATAAAGATTTTTTGTGTTTTGTTTTGTTTTCCATTTTCTGAGATTTATAGA
TTGGTGTATAGCTTTAACTGTATAAAGTTTTGTGGAAAGATTTTTTAAACATTTTATAAATCTTAAATTTGA
TATCATCAAAGTGAGCCCATCTTGTGTTTATAAATAACAAGATCCTTAACATTTATAATTACATAGATAAAACA
CTTTCTATAAGGAAGTTGGATGTTTTGATTTTACTGTTTATAGATGTTAGATTGTACAGATTTGTCTGTATTTCT
CACCATATCTAATGATACTTTTTTCATTAGATTGGTCTTCAAGAACAGTATTAGTTATAATTATTTTGGTTATTC
AGTATATAGTTAGCTCTTACAGTTTAGCTTTATTCACCATATTTATACTGTGGATTTCACAGCGAGAGGTAGAGGT
TATTCCAGGAGAGTTGATGACCTTCATTTAAAGTCCAATAAATCAGTAGTAGAAACATAAGAAAAACATCTTTG
CAATATTTACTTTTGTGTTTCTGTTTGCCGTAAATAGTAACATTGTTTTTTTTTATTTTGTGTTTGTATATAAACAG
TTGCATTACAAATATTATTGGCCTGAGATATTGATGATATTGTGATGGTATGAAATGTGTACATTCCCTGTGCA
ACATCAGATTTGCAGGAAAAATGAAGCACTTACTGAAATCGCTGGTACTCTGAATAAATAAGCATGGTCAAGGAG
TGAATATTTTCTTTTGGAAATTTCTTTTTAATTTTTATTATTAAAGTATTTTATTTTAGGGCCTTTTGGGTTT
TATTGAATAGTTTCACTTACCTGTTTAAAGACTTACTACCAATAAGCATAAAACCTGACACGTTAAATCCCTGCC
CTTTGGTGAGCCCACTGTTATTTATTAAAAATAAAAGTTATTTTATGGGTGATT

1088/2777
FIGURE 966

VNSSNPFFTSQTKANGNPACSAQLQHVSPPIFPAHLASVSTPLLSSMESVINPNITSQDKNEQGGM LCSQMENLP
STALPAQMEDLT KT VLP LNIDSGSDPFLPLPAESSMSLFPSPADSGTNSVFSQLENNTNHYSSQIEGNTNSSFL
KGGNGENAVFPSQVNVANNFSSTNAQQSAPEKVKKDRGRGPNGKERKPKHNKRAKWPAAIIRDGKFICSR CYRAFT
NPRSLGGHLSKRSYCKPLDGAETIAQELLQSNQPSLLASMLSTNAVN LQQPQQSTFNPEACFKDPSFLQLLAEN
RSPAFLPNTFFPRSGVTNFNTSVSQEGSEIIKQALETAGIPSTFEGAEMLSHVSTGCVSDASQVNATVMPNPTVPP
LLHTVCHPNTLLTNQNRTSNSKTSSIEECSSLPVFPTNDLLLKTVENGLCSSSFNPSGGPSQNFTSNSSRVSVIS
GPQNTRSSHLNKKGNSASKRRKKVAPPLIAPNASQNLVTSDLTTMGLIAKSVEIPTTNLHSNVIPTCEPQSLVEN
LTQKLNNVNNQLFMTDVKENFKTSLESHTVLAPLTLKTENGDSQMMALNSCTTSVNSDLQISEDNVIQNFECTLE
IIKTAMNSQILEVKSGSQGAGETSQNAQINYNIQLPSVNTVQNNKLPDSSPFSSFISVMPTKSNIPQSEVSHKED
QIQEILEGLQKLKLENDLSTPASQCVLINTSVTLTPVKSTADITVIQPVSEMINIQFNDKVNKPFVCQNQGCN
YSAMTKDALFKHYGKIHQYTPEMILEIKKNQLKFAPFKCVVPTCTKTFTRNSNLRAHCQLVHHFTTEEMVKLKIK
RPYGRKSQSENV PASRSTQVKKQLAMTEENK KESQPALELRAETQNTHSNVAVIPEKQLIEKKSPDKTESSLQVI
TVTSEQCNTNALINTQTGRKIRRHKKEKEEKKRKKPVQSLEFPTRYSPYR PYRCVHQGCFAAFTIQQN LILHY
QAVHKSDLPAFSAEVEEESEAGKESEETETKQTLKEFRCQVSDCSRIFQAITGLIQHYMKLHEMTPEEIESMTAS
VDVGKFP CDQLECKSSFTTYLNYVHLEADHGIGLRASKTEEDGVYKCDCEGCDRIYATRSNLLRHIFNKHNDKH
KAHLIRPRLTPGQENMSSKANQEKS KSKHRGTHSRCGKEG IKMPKTKRKKNNLENKNAKIVQIEENKPYSLK
RGKHVYSIKARNDALSECTSRFVTQYPCMIKGCTSVVTSESNIIRHYKCHKLSKAFTSQHRNLLIVFKRCCNSQV
KETSEQEGAKNDVKDS DTCVSESNDNSRTTATVSQKEVEKNEKDEMDTELFI TKLINEDSTSVETQANTSSNV
SND FQEDNLCQSERQKASNLKRVNKEKNVSQNKRRKVEKAEPASAAELSSVRKEEETAVAIQTIEEHPASFDWSS
FKPMGF EVSFLKFLEESAVKQKNTDKDHPNTGNKKGSHSNSRKNIDKTAVTSGNHVCPCKESETFVQFANPSQL
QCSDNVKIVLDKNLKDCTELVLKQLQEMKPTVSLKKLEVHSNDPDM SVMKDISIGKATGRGQY

1089/2777

FIGURE 967

[illegible]

1090/2777
FIGURE 968

MALARAWKQMSWFYYQYLLVTALYMLEPWERTVFNSMLVSIVGMALYTGIVFMPQHIMAILHYFEIVQ

1091/2777
FIGURE 969A

CAACGATTGTCTTCTCGGCTGGTCTCCCCCGGCTCTACATGTTCCCCGCACTGAGGAGACGGAAGAGGAGCCG
TAGCCACCCCCCTCCCGGCCGATTATAGTCTCTCGCCACAGCGGCCTCGGCCTCCCCTTGGATTTCAGACGCC
GATTTCGCCAGTGTGTTGGGAAATGGGAAGTAATGACAGCTGGCACCTGAACTAAGTACTTTTATAGGCAACACCA
TTCCAGAAATTCAGGATGAATGGGGATATGCCCCATGTCCCCATTACTACTCTTGGCGGGGATTGCTAGTCTCACA
GACCTCCTGAACCAGCTGCCTCTTCCATCTCCTTTACCTGCTACAACCTACAAAGAGCCTTCTCTTTAATGCACGA
ATAGCAGAAGAGGTGAACTGCCTTTTGGCTTGTAGGGATGACAATTTGGTTTCACAGCTTGTCCATAGCCTCAAC
CAGGTATCAACAGATCACA TAGAGTTGAAAGATAACCTTGGCAGTGATGACCCAGAAGGTGACATACCAGTCTTG
TTGCAGGCCGCTCTGGCAAGGAGTCCTAATGTTTTAGGGAGAAAAGCATGCAGAACAGATATGTACAAAGTGGA
ATGATGATGTCTCAGTATAAACTTTCTCAGAATTCATGCACAGTAGTCCTGCATCTTCCAATTATCAACAAACC
ACTATCTCACATAGCCCCCTCCAGCCGGTTTGTGCCACCACAGACAAGCTCTGGGAACAGATTTATGCCACAGCAA
AATAGCCCAGTGCCTAGTCCATACGCCCCACAAAGCCCTGCAGGATACATGCCATATTTCCCATCCTTCAAGTTAC
ACAACACATCCACAGATGCAACAAGCATCGGTATCAAGTCCCATTGTTGCAGGTGGTTTGAGAAACATACATGAT
AATAAAGTTTCTGGTCCGTTGTCTGGCAATTCAGCTAATCATCATGCTGATAATCCTAGACATGGTTCAAGTGAG
GACTACCTACACATGGTGCACAGGCTAAGTAGTGACGATGGAGATTCTTCAACAATGAGGAATGCTGCATCTTTT
CCCTTGAGATCTCCACAGCCAGTATGCTCCCTGCTGGAAGTGAAGGAACCTCTAAAGGCTCAAGACCACCTTTA
ATCCTACAATCTCAGTCTCTACCTTGTTCATCACCTCGAGATGTTCCACCAGATATCTTGCTAGATTCTCCAGAA
AGAAAACAAAAGAAGCAGAAGAAAATGAAATTAGGCAAGGATGAAAAGAGCAGAGTGAGAAAGCGGCAATGTAT
GATATAATTAGTTCTCCATCCAAGGACTCTACTAACTTACATTAAGACTTTCTCGTGTAAGGTCTTCAGACATG
GACCAGCAAGAGGATATGATTTCTGGTGTGGAATAAGCAATGTTTCAGAAAATGATATTCCTTTAATGTGCAG
TACCCAGGACAGACTTCAAAAACACCCATTACTCCACAAGATATAAACCGCCCACTAAATGCTGCTCAATGTTTG
TCGAGCAAGAACAACAGCATTCTTCCAGCAAATCAAGTGCCTGTTTTACAACAGAACACTTCAGTTGCTGCA
AAACAACCCAGACTTCTGTGGTACAGAATCAACAACAGATATCACAACAGGGACCTATATATGATGAAGTGGA
TTGGATGCATTGGCTGAAATTGAGCGAATAGAGAGAGAATCAGCTATTGAAAGGGAGCGCTTCTCAAAAAGAGTT
CAAGATAAAGATAAGCCTTTGAAAAAAGAAAACAAGATTCTTACCCACAGGAGGCTGGGGGTGCTACAGGAGGT
AATAGACCAGCTTCTCAGGAGACGGGTTCTACGGGAATGGGTCAAGGCCAGCATTAAATGGTTAGCATTGATCTT
CATCAGGCAGGAAGAGTGGACTCTCAGGCTTCTATACTCAGGATTCAGACTCCATAAAAAAGCCTGAAGAAATC
AAACAATGTAATGATGCACCTGTTTCTGTTCTTCAGGAAGATATTGTTGGAAGTCTTAAATCTACACCAGAAAAC
CATCCTGAGACACCTAAAAAAAAGTCTGATCCTGAGCTTTCAAGAGTGAAATGAAACAAAAGTGAAAGTAGATTA
GCAGAATCTAAACCAATGAAAACCGATTGGTGGAGACAAAATCAAGTGAAAATAAGTTAGAAAATAAGTTGAG
ACCCAAACAGAAAGAACTTAAACAGAATGAGAGCAGAACAACTGAATGCAACAAAACGAGAGCACCATAGTTGAG
CCTAAACAAAATGAAAATAGACTGTCTGACACAAAACCAATGACAACAAAACAAAATAATGGCAGATCAGAAACA
ACAAAATCAAGGCCTGAAACCCCAAGCAAAAGGGTGAAAGCCGGCCTGAGACTCCAAAACAAAAGAGTGATGGG
CATCCTGAAACCCCAAAAACAGAAAGGTGATGGAAGGCCTGAAACTCCAAAGCAAAAAGGTGAGAGCCGCCCTGAA
ACTCCAAAGCAAAAAAATGAAGGGCGACCTGAAACACCAAAAACACAGGCATGACAATAGGAGGGATTCTGGAAAG
CCATCTACAGAGAAAAAACCTGAAGTGTCTAAACATAAAACAAGATACTAAATCTGACTCACCTCGGTTAAATCA
GAACGAGCTGAAGCCTTAAAGCAGAGACCTGATGGGCGATCTGTTTCTGAGTCACTAAGACGTGACCATGATAAT
AAACAAAAATCAGATGACAGGGGTGAATCAGAGCGACATCGAGGGGATCAGTCTAGGGTTCGAAGACCAGAAACA
TTGAGATCCTCTAGTAGAAATGAACATGGCATTAAATCTGATAGTTCAAAAACCTGATAAACTAGAACGAAAACAC
AGGCATGAATCAGGGGACTCAAGGGAAAGACCATCTTCTGGGGAACAAAATCAAGACCTGACAGTCTCTGTT
AAACAAGGAGATTCTAATAAATCAAGATCTGATAAACTTGGTTTTAAATCACCACCTAGTAAAGATGACAAAAGG
ACAGAGGGTAACAAGAGTAAAGTAGACACTAATAAAGCACACCTTGACAATAAGGCAGAAATTTCCAAGTTATTTG
TTGGGGGGCAGGTCTGGTGCCTTGAAAAATTTTGTCTTCCGAAAATCAAGAGGGATAAAGATGGCAATGTTACT
CAGGAGACAAAAGAAAATGGAAATGAAAGGAGAGCCGAAAGACAAAGTAGAAAAAATAGGATTAGTTGAAGATCTA
AATAAAGGAGCTAAGCCTGTAGTTGTGCTACAAAACCTGTCTTTGGATGATGTTTCAAGAACTTATTAAGATAGA
GAGGACAAATCAAGAAGTTCCCTTAAACCTATCAAGAATAAACCATCAAAGTCAAATAAAGGTAGTATAGATCAA
TCAGTGTTAAAAGAATTACCCCTGAACTCCTGGCAGAAATTGAGTCCACCATGCCACTTTGTGAACGTGTGAAA
ATGAACAAACGCAAGCGTAGCACAGTTAATGAAAAGCCAAAATATGCTGAAATCAGTTCAGATGAAGATAATGAT
AGTGATGAAGCTTTTGAATCCTCTAGGAAACGACATAAAAAAGATGATGATAAAGCTTGGGAATATGAAGAGCGT

1092/2777
FIGURE 969B

GACAGAAGAAGCTCTGGGGATCATAGGAGAAGTGGCCACTCTCATGAAGGAAGAAGGAGTTCAGGTGGTGGTTCGT
TATCGAAACCGAAGTCCGTCAGATTCTGACATGGAAGATTATTCTCCTCCTCCCAGCCTTAGTGAGGTTGCTAGG
AAAATGAAGAAAAAGAAAAACAGAAGAAAAGGAAAGCATATGAACCAAACTAACACCTGAAGAAATGATGGAC
TCTTCAACTTTTAAAGAGATTACAGCCTCAATAGAGAATATTTTGGATAATTTGGAAGATATGGATTTTACTGCG
TTTGGTGATGATGATGAAATTCCTCAGGAACTGCTCTTAGGAAAACATCAGCTTAATGAACCTGGCAGTGAATCT
GCTAAAATAAAAGCAATGGGTATAATGGATAAGCTTTCAACTGACAAAACCTGTGAAAGTCTTAAATATCTTGGAG
AAGAATATTTCAGGATGGGTCAAAGCTTTCCACTTTGTAAATCATATAACGATACTGAAGAAGAAGAAAGGTTA
TGGAGAGACCTTATTATGGAGAGAGTTACAAAATCAGCGGATGCTTGTCTTACAACATCAACATTATGACATCC
CCTAACATGCCAAAAGCTGTGTACATTGAGGATGTAATTGAAAGAGTTATACAGTACACTAAATTTTCAATTTGCAG
AATACACTTTTATCCTCAGTATGATCCTGTTTACAGATTAGATCCTCATGGAGGAGGCTTATTAAGTTCAAAGCA
AAACGGGCTAAATGTTCTACCCATAAGCAGAGAGTAATAGTAATGCTTTATAACAAAGTTTGTGACATTGTTAGC
AGCTTATCAGAATTGCTAGAGATACAACCTTCTTACAGACACAACAATTCTTCAGGTTTCATCTATGGGAATAACA
CCATTTTTTGTGGAAAATGTCAGTGAACCTACAGTTGTGTGCCATTAAGTTAGTCACTGCAGTATTCTCAAGATAT
GAAAACATAGGCAGTTAATTTTGAAGAAAATTTTACTTCACTTGCAAGATTACCAACCAGCAAGAGGAGTTTA
AGGAACCTTCAGGTTAAACAGTAGTGATATGGATGGAGAACCTATGTATATTAGATGGTTACAGCACTGGTTTTA
CAACTTATTTCAGTGTGTGGTACACTTACCATCATCAGAGAAGGACTCTAATGCAGAAGAAGATTCAAATAAAAAA
ATTGACCAGGATGTTGTCTACTTAACCTTATGAAACAGCTATGCGAACAGCCAAAACCTTCTCTCCATCTTC
CTTAAAAAATGTGGTAGTAAGCAAGGTGAAGAAGATTACAGACCACTGTTTGAAAATTTTGTTCAGACCTTCTT
TCAACAGTCAATAAGCCTGAATGGCCAGCTGCTGAACTACTCCTTAGTTTGTAGGGAGACTGTTGGTTTCATCAG
TTCAGTAACAAGTCAACAGAGATGGCTTTAAGAGTGGCATCTCTTGATTACCTTGGAACCTGTTGCTGCACGGCTA
AGAAAAGATGCTGTTACAAGCAAAATGGATCAAGGATCTATAGAACGCATTTTAAAACAGGTTTCAGGAGGGGAA
GATGAAATCCAACAATTACAAAAAGCATTGCTTGATTACTTGATGAAAACACTGAGACTGATCCTTCACTAGTG
TTTTCTCGTAAATTCTATATAGCCCAGTGGTTTTGAGACACAACCTCTGGAACAGAAAAAGCAATGAAATCACAA
AAAGATGAAGAATCATCTGAAGGAACACATCATGCAAGGAAATTGAGACAACCTGGCCAAATTATGCATCGAGCT
GAAAACCGAAAAAAGTTTCTTAGAAGCATTATCAAACCACACCTTCTCAGTTTAGCACATTAAAGATGAACTCT
GATACTGTGGACTATGATGATGCTTGCTTGATTGTTGATACTTGGCCTCCATGAGGCCGTTTGCCAGAGCTTT
GATATTTATTTGACACAGATCCTACGAGTTCTTGGTGAAAATGCAATTGCTGTTGCAACAAAAGCCATGAAGTGT
TTGTCTGAGGTTGTTGCTGTAGACCCAGTATTCTAGCAAGGCTTGATATGCAACGAGGTGTTTCATGGACGATTG
ATGGATAATTGCACTAGTGTCGAGAGCAGCAGTAGAATTACTAGGTCGATTTGTCTTTGTGCGACCTCAGCTT
GCTGAACAGTATTATGATATGCTGATTGAAAGAATATTGGATACTGGTATCAGTGTGAGGAAAAGAGTAATAAAG
ATTCTCAGAGACATTTGTATTGAACAACCAACATTTCCAAAAATCACAGAAATGTGTGTAATAATGATTGCGAGA
GTCAATGATGAAGAGGGCATTAAAGAAATTAGTAAATGAAACATTCCAGAACTCTGGTTTACTCCAACCTCCACAC
AATGACAAAGAAGCAATGACAAGGAAAATTTTAAACATTACCGATGTGGTTGCAGCATGCAGAGATACTGGATAT
GACTGGTTTGTAGCAACTGCTTCAAACTTGTGTAAGTCCGAAGAGGATTCTCATATAAACCTGTGAAGAAAGCT
TGTACTCAACTTGTGATAACCTAGTTGAGCACATTCTTAAATATGAGGAATCTCTAGCTGACTCTGACAATAAA
GGTGTGAATTTCTGGAAGATTGGTAGCTTGCATAACCACTTTGTTCTTATTTCAGCAAAATAAGACCCAGCTCATG
GTTAAACATGCAATGACTATGCAACCATACCTTACCCTAAATGTAGTACGCAAAATGATTTTCATGGTTATCTGC
AATGTTGCAAAAATCCTAGAGCTAGTTGTACCCTGATGGAGCATCCAAGTGAACCTTTTCTTGCCACTATTGAG
GAAGATCTAATGAAGCTCATCATCAAATATGGCATGACTGTAGTGCAACATTGTGTGAGCTGTCTTGGAGCTGTT
GTAAATAAAGTGACACAAAATTTTAAATTTGTGTGGGCTTGTTTCAATAGATACTATGGTGCCATTTCAAATTA
AAAAGTCAACACCAAGAGGACCCAAATAACACTTCACTTCTAACAACAAACAGCACTTCTTAGATCCCTTTTC
ACCGTTGGAGCACTATGTCGGCATTGTGATTTTGATCTGGAAGATTTTAAAGGCAACAGCAAGGTTAACATAAAA
GATAAAGTACTTGAACATTTGATGATTTTACAAAACACTCAGATGAAGAAGTACAAACAAAAGCTATCATTGGT
CTAGGATTTGCCTTTATTCAGCATCCAAGTCTAATGTTGAGCAAGAAGTGAAGAATCTATATAATAATATTTTA
TCTGATAAGAACTCCTCAGTCAATTTAAAAATACAAGTGTTAAAAAACCTCCAGACCTACCTACAAGAAGAAGAT
ACACGTATGCAGCAGGCAGATAGAGACTGGAAGAAAGTTGCAAAACAGGAAGACTTAAAGAAATGGGTGATGTT
TCCTCAGGGATGAGTAGTTCCATCATGCAGCTTTATCTCAAACAGGTGCTTGAGGCATTTTTTTCACACCCAGTCA
AGTGTACGCCACTTTGCCCTAAATGTCATTGCATTGACTCTAAATCAAGGTCTTATTCATCCAGTTCAGTGTGTG

1093/2777
FIGURE 969C

CCATATTTAATTGCTATGGGCACAGACCCAGAACCTGCTATGCGGAACAAGGCTGATCAGCAACTTGTGGAAATA
GACAAAAAATATGCTGGATTTCATTCATATGAAAGCAGTGGCTGGTATGAAGATGTCTTACCAGGTACAACAGGCA
ATCAACACATGCCTAAAAGATCCTGTAAGGGGTTTCAGACAAGACGAGTCCTCTAGCGCTTTGTGTTACACCTT
TACTCCATGATCCGTGGAAACCGCCAACACAGACGAGCCTTTCTTATTTCTTTACTCAACCTCTTTGATGACACA
GCAAAACAGACGTGACTATGCTCTTGTATATAGCAGACAATCTAGCCTGTTTTCCATACCAGACACAGGAAGAG
CCGTTGTTTATAATGCATCATATAGACATTACACTCTCAGTTTCTGGTAGTAACCTACTGCAGTCATTCAAGGAG
TCTATGGTAAAGGACAAAAGGAAAGAGAGAAAATCATCACCTAGTAAGGAAAATGAGTCAAGCGACAGTGAAGAA
GAAGTTTCCAGGCCTCGGAAGTCACGGAACGTGTAGATTTCAGATTTCAGATTTCAGATTTCAGAAGACGATATAAAT
TCAGTGATGAAATGTTTGCCAGAAAATTCAGCTCCTTTAATCGAATTTGCAAATGTGTCCCAGGGTATTTTATTA
CTTCTCATGTTAAACAACATTTGAAGAATCTTTGTGGATTTTCTGATAGTAAAATTCAGAAGTACTCTCCATCT
GAATCTGCAAAAGTATATGATAAAGCGATAAACCAGAAAACAGGAGTTTCAATTTTCATCCAAAACAAACACTGGAC
TTCTGCGGAGTGACATGGCTAATTCCAAAATCACAGAAGAGGTGAAAAGGAGTATAGTAAAACAGTATCTAGAT
TTCAAACCTTCTCATGGAACATCTGGACCTGATGAAGAAGAAGAAGAGGGAGGTTTCAGCTAGCACAAATGCT
CGGAACAAAGCAATTACCTCACTGCTTGGAGGAGGCAGCCCTAAAATAATACAGCAGCAGAGACAGAAGATGAT
GAAAGTGATGGGGAGGATAGAGGAGGAGGCACCTTCAGGGTCATTGAGAAGGTCAAACGAAATTCAGACTCTACG
GAGTTGGCAGCACAGATGAATGAAAGTGTGACGTCATGGATGTCATCGCTATTTGCTGTCCAAAGTACAAAGAT
CGACCACAAATTGCAAGAGTAGTGCAGAAAACCAGCAGTGGCTTCAGTGTTTCAGTGGATGGCAGGCTCCTACAGT
GGCTCCTGGACTGAGGCTAAGCGCCGTGATGGCCGCAAACCTGGTGCCTTGGGTAGACACTATTAAAGAGTCAGAC
ATTATTTACAAAAAATTGCTCTAACGAGTGCTAATAAGCTGACTAATAAAGTTGTTTCAGACTTTACGATCCCTG
TATGCCGCCAAGGATGGGACTTCCAGCTAATGAATTTGTACATGCAGCCAAATTTACAGGAATTTTTTTAAAAGG
CAGAAAAACTTGAAATACCAACATTCTGGCAAAAAAATCAGTTTTATGAAGAGTAAGTGGAACCTGGGATGCA
GGAACAAAAGAAGGAAATGTTGGGCAAACATTTTTGTGGGAGCTCCCTTCGCTGTTGTGCAGCAGAAACAGATTC
TCAGTTTCATTTTTACTCCCACTGTATTATAGTTTAAACAAAAATTGTTTATATCTTGGAACAAAACTTTCTGTTT
AAAAAAATAAACAAGTGAATGTTGGAAATTAGTCTGTTAATGTTCTTAATAAAGTGTTCTTGAGTTTAACCTA
GCAGCGGATGGCTTTCTTTAGCTTAGCCAGTTTCCAGGGAAGCATTGTTTTTTCCAGGCTGTAAAATGGCAGAA
TCTCCTGGATATATAATTTATTCTGTTGAAAAATAAAAAAGCATGCAGTATCTATGACCTATCTGCAGAAGGAGT
TTTTGTAAATGTAGATTTTGATGTATTAGGTCACCCTGAAAACAATACAAGAAAAGGGATCCCCAGGTAATCTGG
TGGAGCGAATACTGCAATAAATTTTTTTTACTTCTCTTTGTTACTTGTCTGTTTCCATTT

1094/2777
FIGURE 970

MNGDMPHVPIITLAGIASLTDLLNQLPLPSPLPATTTKSLLFNARIAEEVNCLLACRDDNLVSQIVHSLNQVSTD
HIELKDNLGSDDEPGDIPVLLQAVLARS PNVFREKSMQNRVYVQSGMMMSQYKLSQNSMHSSPASSNYQOTTISHS
PSSRFVFPQTSSGNRFMPQQNSPVSPYAPQSPAGYMPYSHPSSTYTHPQMQQASVSSPIVAGGLRNIHDNKVSG
PLSGNSANHHADNPRHGSSSEDYLMVHRLSSDDGDSSTMRNAASFPLRSPQPVCS PAGSEGTPKGSRPPLILQSQ
SLPCSSPRDVPPDILLDSPERKQKKQKKMKLGKDEKEQSEKAAMYDIISSPSKDSTKLT LRLSRVRSSDMDQOED
MISGVENS NVSENDIPFNVQYPGQTSKTPITPDINRPLNAAQCLSQQEQTAFLPANQVPVLQONT SVA AKQPQT
SVVQNQQQISQQGP IYDEVELDALAEIERIERESAIERERFSKEVQDKDKPLKKRKQDSYPQEAGGATGGNRPAS
QETGSTNGSRPALMVSIDLHQAGRVDSQASITQDSDSIKKPEEIKQCNDAPVSVLQEDIVGSLKSTPENHPETP
KKKSDPELSKSEMKQSESRLAESKPENENRLVETKSSSENKLETKVETQTEELKQNESRTTECKQNESTIVEPKQNE
NRLSDTKPNDNKQNNGRSETTKSRPETPKQKGESRPETPKQKSDGHPETPKQKGDGRPETPKQKGESRPETPKQK
NEGRPETPKHRHDNRD SGKPSTEKKPEVSKHKQDTKSDSPRLKSERAEALKQRPDGRSVSESLRDHDNKQKSD
DRGESERHRGDQSRVRPETLRSSSRNEHGIKSDSSKTDKLERKHRHESGDSRERPSSGEQKSRPDSPRVKQGDS
NKSRSDKLGFKSPTSKDDKRTEGNKSKVD TNKAHPDNKA EFPSYLLGGRSGALKNFVIPKIKRDKDGNVTQETKK
MEMKGEPKDKVEKIGLVEDLNKGAKPVVVLQKLSLDDVQKLIKDRDKSRSSLKPIKNKPSKSNKGSIDQSVLKE
LPELLAEIESTMPLCERVKMNRKRSTVNEKPKYAEISSDEDNDSDEAFESSRKRHKDDDKAWEYEERDRSS
GDHRRSGHSHEGRRSSGGGRYRNRSPSDSDMEDYSPPPSLSEVARKMKKKEKQKKRKAYEPKLTPEEMDSSTFK
RFTAS IENILDNLDMDFTAFGDDDEIPQELL LGKHQLNELGSESAKIKAMGIMDKLSTDKTVKVLNILEKNIQD
GSKLSTLLNHNNDTEEEERLWRDLIMERVTKSADACLTTINIMTSPNMPKAVYIEDVIERVIQYTKFHLQNTLYP
QYDPVYRLDPHGGGLSSKAKRAKCS THKQRVIVMLYNKVCDIVSSLSELLEIQLLTDTTILQVSSMGITPFFVE
NVSELQLCAIKLVTAVFSRYEKHRQLILEEIFTSLARLPTSKRSLRNFRNLSSDMDGEPMYIQMVTALVLQLIQ
VVHLPSSSEKDSNAEEDSNKKIDQDVVITNSYETAMRTAQNFLSIFLKKCGSKQGEEDYRPLFENFVQDLLSTVNK
PEWPAEELLSSLLGRLLVHQFSNKSTEMALRVASLDYLGTVAAARLRKDAVTSKMDQGSIERILKQVSGGEDEIQQ
LOKALLDYLDENTETDPSLVFSRKFYIAQWFRD TTLETEKAMKSQKDEESSEGTTHAKEIETTQIMHRAENRKK
FLRSIIKTTPSQFSTLKMNSD TVDYDDACLIVRYLASMRPFAQSFDIYLTQILRVLGENAIAVRTKAMKCLSEV
AVDPSILARLDMQRGVHGR LMDNSTSVREA AVELLGRFVLCRPQLAEQYYDMLIERILD TGISVRKRVIKILRDI
CIEQPTFPKITEMCVKMIRRVNDEEGIKKLVNETFQKLWFTPTPHNDKEAMTRKILNITDVVAACRDTGYDWFQ
LLQNLKSEEDSSYPVKKACTQLVDNLVEHILKYEESLADSDNKGVNSGRLVACITTLFLFSKIRPQLMVKHAM
TMQPYLTTCSTQNDFMVICNVAKILELVVPLMEHPSETFLATIEEDLMKLI IKYGMTVVQHCVSCLGAVVNKVT
QNFKFVWACFNRYYGAI SKLKSQH QEDPNNTSLLTNKPALLRSLFTVGALCRHFD FDFLEDFKGN SKVNIKDKVLE
LLMYFTKHSDEEVQTKAIGLGFAFIQHPSLMFEQEVKNLYNNILSDKNSSVNLKIQVLKNLQTYLQ EEDTRMQQ
ADRDWKKVAKQEDLKEMGDVSSGMSSSIMQLYLKQVLEAFFHTQSSVRHFALNVIALTLNQGLIHPVQCVPYLIA
MGTDPEPAMRNKADQQQLEIDKKYAGFIHMKAVAGMKMSYQVQQAINTCLKDPVRGFRQDESSSALCSHLYSMIR
GNRQHRRAFLISLLNLFDDTAKTDVTMLLYIADNLACFPYQTQEEPLFIMHHIDITLSVSGSNLLQSFKESMVKD
KRKERKSSPSKENESSDSEEEVSRPRKSRKRVDSDSDSSEDDINSVMKCLPENSAPLIEFANVSQGILLMLLK
QHLKNLCGFSDSKIQKYSSES AKVYDKAINRKTGVHFHPKQTLDFLRSDMANSKITEEVKRSIVKQYLD FKLLM
EHLDPDEEEEEGEVSASTNARNKAITSLGGGSPKNNTAAETEDDES DGEDRGGGTSGSLRRSKRNSDSTELAAQ
MNESVDVMDVIAICCPKYKDRPQIARVVQKTSSGFSVQWMAGSYSGSWTEAKRRDGRKLVPWVDTIKESDIIYKK
IALTSANKLTNKVVQTLRSLYAAKDGTS

1095/2777
FIGURE 971A

CGAAGCGGGTCTGCCCCGCTGTCAGCTGCGGGCCCCGCGCGGGGGTGGCCGCGACCATTGGCGGAGAG
GCGAAAGGGGCGGGGCCCGCCAGCCGCTGCGGGCAAGGCTGAACAGGCGGAGGTGGGCAGCCGCCAGGGAAG
CACGGTCCAGGCGGCTACATTGCGGCCGCGCATGGCAGCGGCGCCCCCTGAAAGTGTGCATCGTGGGCTCGGGGAA
CTGGGGTTTCACTGTTGCAAAAAATAATTGGTAATAACGTCAAGAACTTCAGAAATTTGCCTCCACAGTCAAGAT
GTGGGTCTTTGAAGAAACAGTGAATGGCAGAAAACTGACAGACATCATAAATAATGACCATGAAAATGTAAAATA
TCTTCTGGACACAAGCTGCCAGAAAAATGTGGTTGCCATGTCAAATCTTAGCGAGGCTGTGCAGGATGCAGACCT
GCTGGTGTTTGTTCATTCCCCACCAGTTTATTACAGAATCTGTGATGAGATCACTGGGAGAGTGCCTCAAGAAAGC
GCTGGGAATCACCTCATCAAGGGCATAGACGAGGGCCCCGAGGGGCTGAAACTCATTCTGACATCATCCGTGA
GAAGATGGGTATTGACATCAGTGTGCTGATGGGAGCCAACATTGCCAATGAGGTGGCTGCAGAGAAGTTCTGTGA
GACCACCATCGGCAGCAAAGTAATGGAGAACGGCCTTCTCTTCAAAGAACTTCTGCAGACTCCAAATTTTCGAAT
TACGGTGGTTGATGATGCAGACACTGTTGAACCTCTGTGGTGCGCTTAAGAACATCGTAGCTGTGGGAGCTGGGTT
CTGCGACGGCCTCCGCTGTGGAGACAACACCAAAGCGGCGCTCATCCGCTGGGACTCATGGAAATGATTGCTTT
TGCCAGGATCTTCTGCAAAGGCCAAGTGTCTACAGCCACCTTCTTAGAGAGCTGCGGGGTGGCCGACCTGATCAC
CACCTGTTACGGAGGGCGGAACCGCAGGGTGGCCGAGGCCTTCGCCAGAACTGGGAAGACCATTTGAAGAGTTGGA
GAAGGAGATGCTGAATGGGCAAAGCTCCAAGGACCGCAGACTTCTGCTGAAGTGTACCGCATCCTCAAACAGAA
GGGACTACTGGACAAGTTTCCATTGTTTACTGTCAGTGTATCAGATCTGCTACGAAAGCAGACCAGTTCAAGAGAT
GTTGCTTGTCTTCAGAGCCATCCAGAGCATACATTAAGTGAATCATGCAACGTGTTGGGGGAAGTTCTGCCTTT
CTGATCAATCTTTGGGTTACGTGGAACCCAGGACTTGGCAACATGATGTTTACTGTAAATCTCATCACGGATA
TGATGAATTTTACAGGTTGTTTTTGAATTGTGAGAGGCAGTTTATTAGCAAAGATGTACTGGGCAGTAACTA
AACACACATGCAAACATGTGAATGGTGGTTTTATTCTCATTCTGTGGATGTTTCTATGAGCCAAAATTTGATGTC
TTTTTTCAAATTTGCTTATGAAATTTCCACACAATCGTAGCTTATAAGATTGGAACGATCTCAGCCAAATATTT
TAGGTGTAATTCATATGTAATTTGAGTGGAGGATTTTTTTTCTCATTCTTAGTGTAAATTTTAAACCAGCATT
ACATGGTAGAGTGGAGGAGTGAAGTGTGTTCAAAGATCAACATATTTAACTTTTAAACACTATCTCAAAGCCAGCA
TAATTAACACTTTGATTGTGGGCTGACCTTGTGTTTTTAAACAATCAGGCATTTTTTAATTAGATAATCCACTCA
TGTATTTCCCCCTCACTGCAGTTGTCTGCATTTTTTAGCCTCTTTTCTCTTCGTTAGTTGTGAGAATATGCCTTTG
TCAAGGCTCAGAGGTAACAAGACAGAAAATTCATCTGGGATTTTTCTGCTGTGGCTGGCACATTCTTCTGATTAA
CAGACACTTGTATGATGCTTTAGGCTAGTTAGTGCATTTTTTAGCAAACATTTATCTTAAACATCAGATCCAC
TGGGGGGTGCAAGGGGCTACTGTTAGTCTCTTGTAGATGCAGTCACTCCTCCTGGTCACTAGTGAGCAGGGA
CAGAGCCAGGAGTCAAGTGCAGTGCCAAGGTGCATGACCCTCTGAGAAGTCACTGGGCTGATTTGACCTCCGACT
CATTGGTTGTGTAATGCCATGTGCAGCCTTCTCTGAGGCCATAGGAGGGCTTCTGAGCTGAGATCTATGCAG
GCCATCTCTCAACAGGTGCCACTCCAAGGGCGGTCTCGGTGCAGCAGCATCAGCTTCACTTGTGGGGGGTGG
GGGAAGGGGCGGTCTCAGAAAATGCAGGTTCCCAGGTCCCACCCTGGACTTCTGAAGGGGTGTGGCATCTGTGTTT
CTGATGCTTACTACAATATGTGAACCACTACTTTAGAAAATCTGCTTTAACTTGGTATTCTCTAATTGTGTTCC
CTAGGAAATGACTGTCCCAAGAGCCAGTGATTATTCCAGGTGTTCCCTGGAAAGGTCAAGTGAGTCTGGGAAACA
CTATGTCTGTACACCTCTTGAAGGTGTGAAATGTATGTTTATACATCAGTGAACCCATTTTTCTAGCCTAGCAA
GTCCCAAAACACATTACACTGAAGAGATTTTGGTGAGGAAACTTGCTGGAGTTTTAGGGAACACTGTTCTAGGCT
TAGGTGACCTTAGGATCACTCAAGTAGACCCTTCACTCCCTGCGAGAAATTAGGATGAATAACTACCTGTGGCAT
TGTTGGTTCTGAACTTTTACAGTTCAGGCCTGCTGTGAATCTTTGATGAAGCTTTAAGGTGACACTGTTGTACAA
GATGTCAGCTTTGCTGAAACGCACATTACCTGGAATAAGTGCTTTAATTGTAGAATTAGAATGGGATTTACTGTA
CTGTTTTTAAATGAGATTGGCTTCAGAAATCCATTACAGTTACCTTACATAGCACTTGATACGTGTTAAATGAACAT
ATGAATGTAATTTATATATTCCTAGAATTTAAGTTACTTTGTGAGATTTGGGCCTGTCCCTCAATGCCAGTTTAG
GATTTCTTTTTTCTATACCTTGAAATGATTATAAAATAGATTTTCATGGGAATTTTAAAACTCTATCCAAAAC
ATTTTTGGAGCATTTTAAAGCCCCATACACAGAAGTATACGAAAGCACACAAAACACTCCAAGTTTCAGCAGTTT
TAGCGCCACCATTAAACCACTTTGCTTGTCTCATGAAAATCTTTGTTAAAGTTTGTACACAGGTAACAAAAAGT
TACTTTAAAGATATATAAAGGGCTGTAAGCTAATTGTGGTGTCTAGTAAGTAGCATAATGAGATGTGAGGAGTT
GGAACCTTTCGTGTTTTGCGTATTTTCATCTGCATTACGCTTCTTACTCTGGGTTTGTACTCGAGTGTTATTTCT
TTACAAATGCCCTTGTAATTACCACTCTGAAGTCTGCTGACTGTGTCTCTTGAACATACTTAGGATATTCTGCAC
ATTATGGA AAAAGGTAAATTTTAGAAGTTTCTGCTCTACTAACTGTAGATATTTATGACTCTGCGAGTTATCTAT

1096/2777
FIGURE 971B

TTTTATAACCACTGTGGTCCATTGTTCAATTTAATTCACATTTCTTATGAAGTATGGTAACAGGGAGGGAGACA
CCTAGATTAGCAGCTCAATTTGTACTACTTCAGCCAATCTGTGAATGTAAAACTACACTGTTGCCTTGCTAGGA
TCCACCCTCCTATAATATGGAACAAATATCTGAATGAAATCCACCCTAGGAGACGGAGTCAAACATAACTTGTGG
TTTTTCATTTAACTTTTGGACTACAGCATGGCCCCATGGCATCCACACCAAGAGGGTGTGTGATGAGGTGCCGGT
GTGCAAAGGGAACTTTAGTTTTTCCACTGGTTCTTATCTGCTAGCCTTTTACATACATGTGTACTATATTTGTTT
ATAGACTGTAGGTGGATATATAATTTAAAAGCTTGATTTAATAAACATTTAACCCCTAAACTTGGGG

1097/2777
FIGURE 972

EAGPAPLSAAAPGAGRGWPRPLAERRKGRGRRQPLRARLNRRRWAAGQGSTVQAATFGPAMAAAPLKVCIVGSGN
WGS AVAKIIIGNNVKKLQKFASTVKMWVFEETVNGRKLTDIINNDHENVKYLPGHKLPENNVAMSNLSEAVQDADL
LVFVIPHQFIHRICDEITGRVPKKALGITLIKIDEGPEGLKLISDIIREKMGIDISVLMGANIANEVAAEFCE
TTIGSKVMENGLLFKELLQTPNFRITVDDADTVELCGALKNIVAVGAGFCDGLRCGDNTKAAVIRLGLMEMIAF
ARIFCKGQVSTATFLESCGVADLITTCYGGRRNRVAEAFARTGKTIEELEKEMLINGQKLQGPQTSAEVYRILKQK
GLLDKFPLFTAVYQICYESRPVQEMLSCLQSHPEHT

1098/2777
FIGURE 973A

CTTTCCCCCTTACTCCGCTCCCCTCTTTTCCCTCCCTCTCCTCCCCTTCCCTCTGTTCTCTCCTCCTCTTCCCCCTC
CCCTCCCCCGTCCGGGGCACTCTATATTCAAGCCACCGTTTCCTGCTTCACAAAATGGCCACCGCACGCGACACC
TACGGTCACGTGGCCTGCCGCCCTCTCAGTTTCGGGAATCTGCCTAGCTCCCCTAAGGGGAGGCTACCCGCGGA
AGAGCGAGGGCAGATTAGACCGGAGAAATCCCACCACATCTCCAAGCCCGGAACTGAGAGAGGAAGAAGAGTGA
AGGCCAGTGTTAGGAAAAAAAAAAAAACAAAAACAAAAAAACGAAAAACGAAAGCTGAGTGCATAGAGTTGGAAAG
GGGAGCGAATGCGTAAGGTTGGAAAGGGGGGCGAAGAGGCCTAGGTTAACATTTTCAGGCGTCTTAGCCGGTGGA
AAGCGGGAGACGCAAGTTCTCGCGAGATCTCGAGAACTCCGAGGCTGAGACTAGGGTTTTAGCGGAGAGCACGGG
AAGTGTAGCTCGAGAGAACTGGGACAGCATTTCGCACCCTAAGCTCCAAGGCAGGACTGCTAGGGGCGACAGGAC
TAAGTAGGAAATCCCTTGAGCTTAGACCTGAGGGAGCGCGAGTAGCCGGGCAGAACTCGCCGCGACAGGGAATT
GCGGTGTGAGAGGGAGGGGCACACGTTGTACGTGCTGACGTAGCCGGCTTTCCAGCGGGTATATTAGATCCGTGGC
CGCGCGGTGCGCTCCAGAGCCGCGAGTTCTCCCGTGAGAGGGCCTTCGCGGTGGAACAAACACTCGCTTAGCAGCG
GAAGACTCCGAGTTCTCGGTACTCTTCAGGGATGAGTCATGTGGCAGTGGAAAAATGCGCTCGGGCTGGACCAGCA
GTTTGCTGGCCTAGACCTGAACCTCTTCAGATAATCAGAGTGGAGGAAGTACAGCCAGCAAAGGGCGCTATATTCC
TCCTCATTTAAGGAACCGAGAAGCTACTAGAGGTTTCTACGATAAAGACAGTTTCAGGGTGGAGTTCTAGCAAAGA
TAAGGATGCGTATAGCAGTTTGGATCTCGTAGTGATTCAAGAGGGAAGTCTAGCTTCTTCAGTGATCGTGGAAG
TGGATCAAGGGGAAGGTTTGATGATCGTGGACGGAGTGATTACGATGGCATTGGCAGCCGTGGTGACAGAAGTGG
CTTTGGCAAATTTGAACGTGGTGGAAACAGTCGCTGGTGTGACAAATCAGATGAAGATGATTGGTCAAACCACT
CCCACCAAGTGAACGCTTGGAACAGGAACCTCTTTCTGGAGGCAACACTGGGATTAATTTGAGAAATACGATGA
CATTCCAGTTGAGGCAACAGGCAACAACCTGTCTCCACATATTGAAAGTTTCAGTGATGTTGAGATGGGAGAAAT
TATCATGGGAAACATTGAGCTTACTCGTTATACTCGCCCAACTCCAGTGCAAAAGCATGCTATTCTTATTATCAA
AGAGAAAAGAGACTTGATGGCTTGTGCCCAACAGGGTCTGGAAAACTGCAGCATTCTGTTGCCCATCTTGAG
TCAGATTTATTTCAGATGGTCCAGGCGAGGCTTTGAGGGCCATGAAGGAAAATGGAAGGTATGGGCGCCGCAAACA
ATACCCAATCTCCTTGGTATTAGCACCAACGAGAGAGTTGGCAGTACAGATCTACGAAGAAGCCAGAAAATTTTC
ATACCGATCTAGAGTTGCTCCTTGCGTGGTTTATGGTGGTGCCGATATTGGTCAGCAGATTTCGAGACTTGGAACG
TGGATGCCATTTGTTAGTAGCCACTCCAGGACGTCTAGTGGATATGATGGAAAGAGGAAAGATTGGATTAGACTT
TTGCAAATACTTGGTGTAGATGAAGCTGATCGGATGTTGGATATGGGGTTTGAGCCTCAGATTCTGTAGAATAGT
CGAACAAGATACTATGCCTCCAAAGGGTGTCCGCCACACTATGATGTTTAGTGCTACTTTTCTTAAGGAAATACA
GATGCTGGCTCGTGATTTCTTAGATGAATATATCTTCTTGGCTGTAGGAAGAGTTGGCTCTACCTCTGAAAACAT
CACACAGAAAGTAGTTTGGGTGGAAGAATCAGACAAACGGTCATTTCTGCTTGACCTCCTAAATGCAACAGGCAA
GGATTCACCTGACCTTAGTGTTTGTGGAGACCAAAAGGGTGCAGATTCTCTGGAGGATTTCTTATACCATGAAGG
ATACGCATGTACCAGCATCCATGGAGACCGTTCTCAGAGGGATAGAGAAGAGGCCCTTCACCAGTTCGCTCAGG
AAAAAGCCCAATTTTAGTGCTACAGCAGTAGCAGCAAGAGGACTGGACATTTCAAATGTGAAACATGTTATCAA
TTTTGACTTGCCAAGTGATATTGAAGAATATGTACATCGTATTGGTCTGACGGGACGTGTAGGAAACCTTGGCCT
GGCAACCTCATTCTTTAACGAGAGGAACATAAATATTACTAAGGATTTGTTGGATCTTCTTGTGTAAGCTAAACA
AGAAGTGCCGTCTTGGTTAGAAAACATGGCTTATGAACACCACTACAAGGGTAGCAGTCGTGGACGTTCTAAGAG
TAGCAGATTTAGTGGAGGGTTTGGTGCCAGAGACTACCGACAAAGTAGCGGTGCCAGCAGTTCAGCTTCAGCAG
CAGCCGCGCAAGCAGCAGCCGCGAGTGGCGGAGGTGGCCACGGTAGCAGCAGAGGATTTGGTGGAGGTGGCTATGG
AGGCTTTTACAACAGTGATGGATATGGAGGAAATTATAACTCCCAGGGGGTTGACTGGTGGGGTAACTGAGCCCTG
CTTTGCAGTAGGTCACCCCTGCCAAACAAGCTAATATGGAACCACATGTAACCTAGCCAGACTATACCTTGTGTA
GTTTCAAGAACTCGCAGTACATTACCAGCTGTGATTCTCCACTGAAATTTTTTTTTTAAGGGAGCTCAAGGTCAC
AAGAAGAAATGAAAGGAACAATCAGCAGCCCTGTTTCAAGAGGTGGTTTGAAGACTTCATTGCTGTAGTTTGGATT
AACTCCCCCTCCCGCTACCCCCATCCCAAACCTGCATTTATAATTTTGTGACTGAGGATCATTGTTTGTTAATGT
ACTGTGCCCTTTAACTATAGACAACCTTTTTATTTTGTGCTGTTGGCTCAGTAATGCTCAAGATATCAATTGTT
TTGACAAAATAAATTTACTGAACTTGGGCTAAATCAAACCTTGGCACACAGGTGTGATACAACCTTAACAGGAAT
CATCGATTATCCATAAATAATATAAGGAAAACTTATGCGGTAGCCTGCATTAGGGCTTTTTGATACTTGCAGA
TTGGGGGAAAACAACAATGTCTTGAAGCATATTAATGGAATTAGTTTCTAATGTGGCAAACTGTATTAAGTTAA
AGTTCTGATTTGCTCACTCTATCCTGGATAGGTATTTAGAACCTGATAGTCTTTAAGCCATTCCAGTCATGATGA
GGTGATGTATGAATACATGCATACATTCAAAGCACTGTTTTCAAAGTTAATGCAAGTAAATACAGCAATTCCTCT

1099/2777
FIGURE 973B

TTCAACGTTTAGGCAGATCATTAATTATGAGCTAGCCAAATGTGGGCATACTATTACAGGGAAAGTTTAAAGGTC
TGATAACTTGAAAATAGGTTTTTAGGAGAATTCATCTACTTAGACTTTTTAAGTGCCTGCCATAAATGAAATTGA
AATGGTAGAATGGCTGACCACAGCAATGACCAGCCCTCATTAGGGCCCTGGATGATTTTTTGGTCTAATAACGCAT
GCTAGTGTGATGTTTTTTGGTCAGAGGGTATGAACAGGAAGAATTAAATGCAGCAGGCTTTATTTTAAATGCCG
ATTCACATTACTCTGTTCAAGCTGCGTTGAGATGTTAACTGGCTTACTATAGACTTCGTAAAAATGGCTCCAGA
AAAGTAACAACTGAAATCTTTGAGATCACACAGGTTGGAAATATGTACATAACTGCACAAGGTGTCAATTCTGC
TCTACAGTGCAGTTTTAGTCAGTTTTAGTTGCATAGGTTTCCATTGTATTTATAGTCTGTTTATGCTAAATCTGG
CCAAAGATGAACATTGTCCACCCTAAATGCCTCTGCCACTTTGAATTCTGTGCTAATTTTGTGGCCAGAAATGC
GGTGATCAAAACGCTCCATCTTTTTACAGTGGCATAGGAAGACGGCAAAAATTTCTAAAGTGCAATAGATTTTC
AAGTGTATTGTGCCTTGTTCTAAACCTTTTATTAAGTAGGTGCACCTTGACAGTATTGAGGTCAATTTGTTATGGTG
CTATTTCAATTAGTCTAGGTTTAGGCCCTTGTTACATTTTGCCATAACTTTTTACAAAGTACTTCTTTTATTGCA
CATTCAGAGAATTTTATATATATGTCCTTGTGTGCGTGTCTTAACTTCCAATCTTACTTTGTCTCTTGGAGATT
GTTGAACGCAGCTTGTCTAGGAAGGGGATGGGACTAGATTCTAAAATTTATTTGGGACCATGGGAATGATAGTTG
GGAAGAAAATTTTGCACACGACAGATTTCTAGATACTTTTTGCTGCTAGCTTTATGTAATATTTATTGAACAT
TTTGACAAATATTTATTTTTGTAAAGCCTAAAAGTGATTCTTTGAAAGTTTAAAGAACTTGACCAAAAAGACAGTA
CAAAAACACTGGCACTTGAATGTTGAATGTCACCGTATGCGTGAAATTATATATTTCTGGGGTAGTGTGAGCTTTT
AATGTTTAAAGTCATATTAACCTCTTAAGTCAAATTAAGCAGACCCGGCGTTGGCAGTGTAGCCATAACTTTCTGA
TGTTAGTAAAAACAAAATTGGCGACTTGAAATTAAATTATGCCAAGGTTTTGATACACTTGTCTTAAGATATTAA
TGAAACACTTCAAAACACTGATGTGAAGTGTCCAGATTCTCAGATGTTTGTGTGTGGATTTTGTTTAGTTGTGT
GTTTTTTTTTTTTTTCAGTGAATGTCTGGCACATTGCAATCCTCAAACATGTGGTTATCTTTGTTGTATTGGCATA
ATCAGTGACTTGTACATTAGCAATAGCATTGAGCAAGTTTTATCAGCAAGCAATATTTTTCAGTTAATAAGGTT
TCAAAAATCATGTAAGGATTTAACTTGCTGAATGTAAAGATTGAACCTCAAGTCACTGTAGCTTTAGTAATTGC
TTATTGTATTAGTTTAGATGCTAGCACTGCATGTGCTGTGCATATTCTGATTTTATTAAATAAAAAAAAAA

1100/2777
FIGURE 974

MSHVAVENALGLDQQFAGLDLNSSDNQSGGSTASKGRYIPPHLRNREATRGFYDKDSSGWSSSKDKDAYSSFGSR
SDSRGKSSFFSDRGSGSRGRFDDRGRSDYDGIGSRGDRSGFGKFERGGNSRWCDKSDDEDDWSKPLPPSERLEQEL
FSGGNTGINFEKYDDIPVEATGNNCPPHIESFSDVEMGEIIMGNIELTRYTRPTPVQKHAIPIIKEKRDLMACAQ
TGSGKTA AFLLPILSQIYSDGPG EALRAMKENG RYGRRKQYPISLVLAPTRELAVQIYEEARKFSYRSRVRPCVV
YGGADIGQQIRD LERGCHLLVATPGRLVDMMERGKIGLDFCKYLVLEADRMLDMGFEPQIRRIVEQDTMPFKGV
RHTMMFSATFPKEIQMLARDFLDEYIFLAVGRVVGSTSENITQKVWVEESDKRSFLLDLLNATGKDSLTLVFVET
KKGADSLDFLYHEGYACTSIHGDRSQRDREEALHQFRSGKSPILVATAVAARGLDISNVKHVINFDLPSDIEEY
VHRIGRTGRVGNLGLATSFFNERNINITKDLLDLLVEAKQEVPSWLENMAYEHYKSSRGRSKSSRFSGGFGAR
DYRQSSGASSSSFSSSRASSRSRGGGGHGSSRGFGGGGYGGFYNSDGYGGNYNSQGVDWWGN

1101/2777
FIGURE 975

ATGCCCCTAGGTCTCCTGTGGCTGGGCCTAGCCCTGTTGGGGGCTCTGCATGCCCAGGCCCAGGACTCCACCTCA
GACCTGATCCCAGCCCCACCTCTGAGCAAGGTCCCTCTGCAGCAGAACTTCCAGGACAACCAATCCAGGGGAAG
TGGTATGTGGTAGGCCTGGCAGGGAATGCAATTCTCAGAGAAGACAAAGACCCGCAAAAGATGTATGCCACCATC
TATGAGCTGAAAGAAGACAAGAGCTACAATGTCACCTCCGTCCTGTTTAGGAAAAAGAAGTGTGACTACTGGATC
AGGACTTTTGTTCAGGTTGCCAGCCCGGCGAGTTCACGCTGGGCAACATTAAGAGTTACCCTGGATTAACGAGT
TACCTCGTCCGAGTGGTGAGCACCAACTACAACCAGCATGCTATGGTGTTCTTCAAGAAAGTTTCTCAAAACAGG
GAGTACTTCAAGATCACCCCTCTACGGGAGAACCAAGGAGCTGACTTCGGAATAAAGGAGAACTTCATCCGCTTC
TCCAAATATCTGGGCCTCCCTGAAAACCACATCGTCTTCCCTGTCCCAATCGACCAGTGTATCGACGGCTTGA

1102/2777
FIGURE 976

MPLGILLWLGLALLGALHAQAQDSTSDLIPAPPLSKVPLQQNFQDNQFQGKQWYVVGLAGNAILREDKDPQKMYATI
YELKEDKSYNVTSVLFRKKKCDYWIRTFVPGCPGEFTLGNIKSYPGLTSYLVRVVSTNYNQHAMVFFKKVSQNR
EYFKITLYGRTKELTSELKENFIRFSKYLGLPENHIVFPVPIDQCIDG

1103/2777
FIGURE 977

TTAAGCACTTGTTTTGGGTACAAGGCATTTCTGACATTTTATAAACCTACATTTAAGGGGAATTTTTAAAGGAAA
IGTTTTTCTTTTTTTTTTTGTTTTTCGAGGGGGCAAGGAGGGACAGAAAAGTAACCTCTTCTTAAGTGGAATATT
CTAATAAGCTACCTTTTGTAAGTGCCATGTTTATTATCTAATCATTCCAAGTTTTGCATTGATGTCTGACTGCCA
CTCCTTTCTTTCAAGGACAGTGTTTTTTGTAGTAAAATCACTGGTTTATACAAAGCTTTATTTAGGGGGTAAAGT
TAAGCTGCTAAAACCCCATGTTGGCTGCTGCTGTTGAGATACTGTGCTTTGGGAGTAAAAAAGAAAGTTATTTT
TTTGTCTTAAAGAATTTTAAAAAATTAGTCATGAGACTTATTCATCTTTCCAGGGAACATACTGATTGGTCTTA
AAAGACTAGACAGTTAAGTAAAAGGTGGCTGGAACATCTATTTTTCTACAAAAGTGGAAAAATGAACCTGGTTCT
AGAAGAATGTACACCAAAATAAAACATGTGAAGCAGTATTGATTCTTT

1104/2777
FIGURE 978

LSTCFGYKAFLTFYKPTFKGNF

1105/2777
FIGURE 979

GCACGAGCATAGACTTTTAAACTGGTACGGTTCTTAGAGATGGTCCCTTGGCCTTCTGTTGTTGTTGKGTTTTTT
TCTTTTTCTTCTTCTCCTTCTCCTTCTTCTTCTTCTCCTTCTTCTTCTTTTTTTTTTTCAGAGTCTTGCTCTG
TCACCAAGACTGGAGTGAAGTGATGTGATCTCGGCTTACTGCAACCTGGGAGGCAGAGGTTGCAGTGAGTCGAGA
TGGTGCCATTGCTCTCGTTTGGGCAACAAGAGTGAACTCTTGTCTCAAAAAAAAAAAAAAAAAATGAGGTTTAAGA
CAGTTTTGTCATTACTGGTGGGATCTGGTCACACAAGATAGCATTAAACGTGACATGGCACATAAAATTGGTTAA
AAAATTTTGTTTTTTAATTACGTAATGTAAAAGCCCAACAAACACTTTATGCAAGATTGGAATGTATCTTCAAAT
TCAGATTTAATAAACATGTAAAGATCCTCTGTATATAAAAGTTGTATTTAATCCCTTGCGCCCAAGAATGCTAT
AAAAGATCCAAGAATGTTATCTATGAAAAGATAGCAATAGGGAATGGTGAACAAATAATTTAATTTGCCAATTC
TAAAAACATGGACTTAAACCCCATGAAAACCTGGTTCCATAGTTTTAACTGTTTTATGGTTCCAATACAAAACC
AGAGTGGTTTACATTCCACAATXACCAAATTTGCATCCAATXTTGGGGTAATTTTXGGTATTTGCCATGGGATAC
TATTCATTTTT

1106/2777
FIGURE 980

MVLGLLLLLXFFSFSSSPSPSSLLLLSSFFFQSLALSPRLE

1107/2777
FIGURE 981A

GTCGACCTGCAGGTCAACGGATCTGAGAGGAGAGTAGCTTCTTGTAGATAACAGTTGGATTATATACCATGTCTCT
GATCCCCCTTCATCATCCAGGAGAGCAGAGGTGGTCACCCCTGATAGCAGCAAGCCTGGGGGCTGCAGCTTGGTGGG
TAGAGGTACTCAGGGGTACAGATGTCTCCAAACCTGTCTGCTGCCTTAGGGAGCTTCTAATAAGTTGATGGATT
TGGTTAAATTAACCTTGGCTACTTGGCAGGACTGGGTGAGTGAGGACCAACAAAAAGAAGACATCAGATTATACC
CTGGGGGTTTGTATTTCTTGTGTTTCTTTCTCTTCTTGTACTAAAATATTTACCCATGACTGGGAAAGAGCAAC
TGGAGTCTTTGTAGCATTATCTTAGCAAAAATTTACAAAGTTTGGAAAACAATATTGCCCATATTGTGTGGTGTG
TCCTGTGACACTCAGGATTCAAGTGTGGCCGAAGCCACTAAATGTGAGATGAAGCCATTACAAGGCAGTGTGCA
CATCTGTCCACCCAAGCTGGATGCCAACATTTACAAATAGTGCTTGCCTGACACAAATGCAGTTCCAGGAGGCC
CAAATGAAAATGTTTGTACTGAAATTTGTTAAAGCTTCCCGACAAACTAGATTTATCAGTAAGGATTGTTTTCTG
CAAGGGGGATGAACTTGTGGGGTGAGCCATTTGGGCTGAGGAGGAGGGAGGTTGGAGCTGAGAAATGTGGAGAC
AATTTCCCTTTAGAAGGACTGAATCTCCCTGCCTCTCTGGGGTGCGGCAGCCAGCAGGATCCAATGGTGTATATG
TCTCCCCAGCTCCCCATTGAGTGATATCATGTGCTAGCTTGAATTTATCCGTGGTGGGAGTATTATGTCATGGA
AATTGGCAAATGGAACCTTTTATTGGAGATTCAATTGTTAAACTTTTACCAGCACAACTGCCCTGCCTTCAGA
GTCAATGACCCTATCCAAGTTTAATCCATCTGTCCACTGTCTCCAACACGATCTTTATAAAACACACCTGACAAC
ATTACCCTTTTATTGAGTTTTTTTAAAGATAAGTTTCCAGCTCATCGGGGTGGCTTTAAAGGCCATTTCTCCTCT
GGACCTCACCCAACCTTTTCAAATCACTTTTCTTACCCCTACCTCTAAATGCTACTCAAACCTCCAGCCATCCTGAA
TAATAAGACTTTTTGAAAAGTAGATTATGGGCTGGGCACAGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGC
CAAGATGGGTGGATCACCTGAGGTCGGGAGTTTCGAGACCAGCCTGACTAACATAGTGAAACCCCTGTCTCTACTAA
AAATACAAAATTAGTTGGGGGTGGTGGCACAAGCCTGTAATCCCAGCTACTCAGGAGGTTGAGGCAGGGGAATTG
CTTGAACCTGGGAGGCGGAGGTTGCGGTGAGCCTAGATTGCTCCACTGCACTCCAGCCTGGGCAACAAGAGCGAA
ACTCCATCTCAAAAAATAAATAAATAAATAAAGTAGATTACATCAGATACCTCTGGCCTAGGTTGTTTATGACC
AACTCTCCTGCTGAGAATAACTAGAAAAGCTAGACAAAACATATTTCCAAAAGATCTCTTTGGAGGCATCAGAGA
ATGGCCAAGGCTGTAAGGAACCTGCCTGAGCCAGAGAGGTGGAGCCAGCACTGGTGCCCTTTACTCCTGGGGAC
ATGTGCTGGTTTCAAAAACCTTCAGCTGAGCTTTTGGCATTTCATGGAACCTGGTGGGGGAGATGAAATTTGTACC
TTAAATCCTGCCTACAGGGAGGGTCCCTGATAATCCCCACCCAATTTGGAAATCTGGGTGAGCCTTCACAGGTAC
TGAAGCCCTCCTCTGAATGATCTCAAGTCCTGCTAGGGTAGAGGTTACCTGCTTTTGAAAGGCTCCTGGCCTACC
TGTGACAGCAGGAGCAAAAGTGAACCATCTCAGGGTACAGATAACAATCATCCAGAGCCTTGAATGACCTCTACTG
TGCTTAATATATAGTATTACAGCAGTCAGTAAAAAGGATTTAGGCACATGCAAGATGACCTGTGTATCAGGGAGAA
ATAGGCAATAAATTGAGATCCAGCAGGGATTTGAATCATGGATTTGAATCAGGGGCAGCCTTCGAAAGAACTATG
GAGAATATACTCAGATTTAAACATAAGATTGGAATTTTGGCAGAGAACTAACAACCTGTACAAAAAGGAACCA
AATGGAAATCCTAGAACTGAAAGATGCAATTAACCGATGTTGAGAAATAGCCAACATCTATTGAACACTTCCCAT
GTGGACAGCTGTGCTAAACACTTTACAGGCATCAACATAAGATGTGTCCCCTTACAGCAGTGCACTGTCCCTCCT
AAGACATGGACAGCCTGGTTTTCCCTATCTCTCTGCTTCATCAAAACCCCTTTACGTGGGGCTTAGACACTCCTGT
TGTCTCTAGTGTCTAGTAGCACAGGGCTCAGCACATGGAAGCCACTAGATACAATTTGATGACCAGGACCTCCGA
TGAAAGCCATGGGTGCTGATTGGGAAGGCATTGTCTTTATGTGCTATGGTCTTAAAGCTTCATCCAGGAAGCAG
AACTCGGGGGGTGCTGAGGACCCAGAACCGAGAATAAGATTAGTCAGAGATTTCTGTGGGCAGAAATCATAAGG
ACGCCAACTGTTTTGGGTGAGATAAGACGAAACCAAGAGTGGACTTGTGGCCAGAAGCGTGAGGAAGAGGGAGAGA
GCTTCCCTTGTCCCTTTTCTTCTCTCCCTAAGCCACAGTGATTGACAGCCCCCCCCGCTTTGGAGTCAGAGCAGG
CTTGAGACTGGACTGGGAAAGGAGGGTGGGTGAGGATACAGAGCAGGAAGGCTGGGAGTGAGGGCAGGAGCAAG
GGGCTGGGGCATTCATTGTGCTGATCTCTCCACTTTACCTGGGGTAAAGAAGCATATGCAAAAGCCACGGTGT
GAGTATTTCCCAAGTGCCAGGGTCAGGGCATGATTTCATCAGTGCAGCATTTCAATCAATCCTTATAGTAACCGA
TGATGTGGCTTCTATTATTAGCTCTATCAGATAATGAACTGAGACCAAGACAGGCTCTGCACATTGTGTGGGGT
AATGACACAGGGGGATTGAGACCTAGACTCCATAACTCCTGCCCCAGGGACCACCCCCACCTCACCTGTGCAT
GTCGACAAAGGACAGACTGGGCCACTTCTCAGGACACAGCGGGGAAATGACACAGAGCAGGGAGGTTCCAGGAGC
CCCGAGCGTCTTTTCTCCAGGAGAATACTCTCTGAATTCAGACTGGGGTCAGAGAAACATTTACCCAGGAGCCGC
AGTGTGGGTGGGGCTTTTACTTGAAACGCTGTCTGAAGGCAGTGGCAGGATGAACTCTCCACCCTACCTTGGCA
AGCCACTTCTCTTCTGCAATCTGTAAGGACATTGTTGAGAGAATTATGGTCTTCCAATTCCGGAGGGTTGAAGAA
AGACAAATAGGAGAGAACCTATCATAGTCAGGTGCTAGCTGCCTTCTCTTTTACAGAGAGTGTGAGAATAAAGTGAT

1108/2777
FIGURE 981B

ACACTTGATTATTAGCAAATACTTTGGAAATTTTAAACGCTAATATTCAACACACTCTGGAAGAGGCCAAATAAGT
AGACAGGTTTCATATACATCATCTCCTTCAGCTAGTCCTCACAAAAACAAACAAATGAATAAAACAAAATTCCTTCTT
TGGCCCTCATAGGAAGACACTGTTTCTTGAACGTGTTTCAAAAAGGATGGGTGACTCAAGGTCACACTGTT
TATGAGGACAGTACAGGAATACAGACATGCCATTTTGCCTGAAAAAATCCATCACCCAGGGAGGTGACACAATTT
TGCAGAAATGTTCTATTTCCCTCTGAAGGATACATTCTTTAAACCTTTGGGAAATTCATTTCATAGTCTTCCTCCTT
TGAAGGATTACTCTCTGGACACAAAGTGTGTTGATTCTGATTTGTTGGTTGGAAGATGTGTTGGTTGAGAGAAAGA
TTCTGATTTGTTGGTTGAAAATAGACTCATCAAGATCAACTGCTGTAGTAGTAAATATTTTGACATTTTGTCTGT
ATTCTGTGCTGCCCTCACAGCTGCATCACCTTGAGTGAGTCATTTCATACTTTTTTGTGTTGTTTTGTTTTGGA
GATGGAGTCTTACTCTGTTGCCCTAGGCTGGAGTGCAGTGGCGTGATCTTGCTCACTGCGACCTCCATCTCCTGG
GTTCAAGTGATCCTCCTGCCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCACATGCCACCATCCCTGCTAATTTT
TGCATTTTCAGTAGAGACGGAGTTTACCATGTTGGTCAGGTTGGTCTTGAACCTCCTGACCTCAGGTGATCCGCC
CACCTCAGCCTCCCCAAGTGTGCTGGGATTACAGGTGTGAGCCACCGTGCCAGCCAGCCATCATTTTGAACAC
GTTTGAGAAATAGTGTCTTCTTTGAGGGCCAAGGAGACATTTTTTTTTGTTTATTGTTGTTTTGTGAGGACT
AGCTGAAGGGGGTGATGTATATTAACCTGCCTACTTATTTGCCTCTTCCCAGAGTGATGAATATTAGGGTTTA
AAGTTTCTGAAGCATTTGTTAATAAAGCCCGGGGCTGGAGGTGAGAAGACCTGGATTCTCTGCATACTTTTGCC
ATCAGCAAGCTGTGTGACCTTGACAGATCCCTTTTTTGTCTAAATCTTTCTGAGTCTTCTGAAAACAATGCCA
GGTTGGGACAGGATGATTGCCAAGCTCCCGTCCAGCTCTAAAACACTGCAACGTATGCTTCTGCACCAGCACTGT
CCATCCTGTAGATCATGCAGAAATCTCTTCAACTTTTTCTACCCATAAAATAGGAGCATGCTTACCTTTTTCC
TAATGTTCCAGGCCCCGGGTCTAGATATTGTAAGTAAGGAAGTTAATGTGTATCAGAGCCCATATGGGCCAGAA
GTTCTCCTCTTCCCTTCCCTACACCTGCTTCCCTCCCTCCCTCCCTCTTCCCTTCCCTTCCCTCCATCCATTG
TGAAGAAGACATGATCACCCCTCATTCTGAGAGTGAAGAGACAGAGGCTCAACTAATGAAATGATTTGTTCAAGGT
CACACGGGTGGCACAAGGCAAGTGGCAGAGGTTGAATTTAGACCCATTCTGTCCAAATGCTGAGTTTATGTCAT
CGTCCCGAGACCATAACTTTAAAGATGTAAGATAGTGGGAAAAGAGTTGATTTCAAAGCACCTCTCAGAAGGACT
CACTTTACATCAGGGGTCAGCAGACTCAGGCCAAATCCGGTCCATTCCCCGCTTTTGCAAAGAAAAGTTGTAGTGG
AACACAGCTAGGCTTATTGATTTATGGATTGCCAACGTCTTTTGTGAAACAGACAGCTGAGCTGAGTAATCGTG
GCGCACAAAACCTAAAAATATTACTATCTCGTCTTTACAGAATGTTTGCCAATCTATGGTCCGGAGTCCAAGGC
TGTCATTTTTTCAAAGAACACAAAGTGACATGAGACTGTCCCATGTGCAGGGAGCCCTATCATTTTATTATGAAA
AAACGGCCTTTCTGCTCAAATCTGTTTTTAAAAAGTCAACAAACAGACTCTGGGTACCTGTCAGGAACAGTAGG
GAGTTTGGTTTCCATTGTGCTCTTCTTCCCAGGAACCTCAATGAAGGGGAAATAGAAATCTTAATTTTGGGGAAAT
TGCACAGGGGAAAAAGGGGAGGGAATCAGTTACAACACTCCATTGCGACACTTAGTGGGGTTGAAAAGTGACAACA
GCAAGGGTTTCTCTTTTGGAAATGCGAGGAGGGTATTTCCGCTTCTCGCAGTGGGGCAGGGTGGCAGACGCCCTA
GCTTGGGTGAGTGACTATTTCTTTATAAACCACAACCTCTGGGCCCCGAATGGCAGTCCACTGCTTGCTGCAGTCA
CAGAATGGAAATCTGCAGAGGCCCTCCGCAGTCACCTAATCACTCTCCTCCTCTTCTGTTCCATTTCAGAGACGAT
CTGCCGACCCTCTGGGAGAAAATCCAGCAAGATGCAAGCCTTCAGGTAAGGCTACCCCAAGGAGGAGAAGGTGAG
GGTGGATCAGCTGGAGACTGGAAACATATCACAGCTGCCAGGGCTGCCAGGCCAGAGGGCCTGAGAATGGGTTT
GGGCTGGAGAGGATGTCCATTATTCAAGAAAGAGGCTGTTACATGCATGGGCTTCAGGACTTGTGTTTCAAATA
TCCCAGATGTGGATAGTGCAGACCGGAGGGCTGTCTTACTTTCCCAGAGACTCAGGAACCCAGTGAGTAATAGATG
CATGCCAAGGAGTGGGACTGCGATTACAGGCCTAGTTGAATGTGCTGACAGAGAAGCAGAGAGGGGCACCAGGGGC
ACAGCCCCAAGGCCCAGACTGATATGGGCAAGGCCTGTCTGTGCTGACATGTGCGAGGGTCCCACTCTCCAGGGA
CCTTGGTTTTCCCGTCTGTGACATCTGTGACATGAGAGTCACGATAACTCCTTGTTGTCCTTACAGGGTTGTTGT
GAAAATTAAATGCACAGATAATAGCGTAACAGTATTCCGTGCATTGTAAAGAGCCTGAAAACCATTTATGATTGGA
AAATGGAATCGGCTTTGTGAGACCATCACTATTGTAAAGATGTGATGCTGATAGAAATGACAGGACTGCTTGTGC
ATGCCCTCTGCAGTGTGACATTCAGCAGTGAAATCATGTTGGGGTGACTTCTCCCCACTCTGACCTTTATGTT
TGCTGGGCGGAGGCTGCAAGTCGGGCTCTGTGGGTGTATGAGTGACAAGTCTCTCCCTTCAGATATGGGGACT
GTCTGCTTCCCTAGGTTGCCCTCTCCCTGCTCTGATCAGCTAGAAGCTCCAGGAGATCCTCCTGGAGGCCCCAGCA
GGTGATGTTTATCCCTCCAGACTGAGGCTAAATCTAGAACTAGGATAATCACAACAGGCCAATGCTGCCATAT
GCAAGCACTTTGGTTTGCCTGGCCACCCCTCGTCGAGCATGTGGGCTCTTCAGAGCACCTGATGAGGTGGGTAC
AGTTAGCCACACTTCACAGGTGAAGAGGTGAGGCACAGGTCCAGGTGAGGCTGGCCGGAGCTCTGTTTATTACG

1109/2777
FIGURE 981C

TCTCACAGCTTTGAGTCTGCTCTCAACCAGAGAGGCCCTTTACCAAGAAGAAAGGATTGGGACCCAGAATCAGG
TCACTGGCTGAGGTAGAGAGGAAGCCGGTTGTTCCCAAGGGTAGCTGCTCCTGCAGGACTCTGAGCAGGTCACC
AGCTAATGGAGGAAAGGCTCTAGGGAAAGACCCTTCTGGTCTCAGACTCAGAGCGAGTTAGCTGCAAGGTGTTCC
GTCTCTTGAACTTCTACCTAGGTGCTATGGTAGCCACTAGTCTCAGGTGGCTATTTAAATTTATACTTAAATGA
ATGAAAATAGAAGAAAATTTAAATCCAGACCCTTGGTCACACTATCCACATTTAAAGAGGTCAATAGCCACATG
TGGTTAGTGGCCACCCTATTGGGCAGTGCAGCTACAGAACATTTTGCATCCCAGAAAGTTCTTTTGATGTTGC
TGCTCTACAGCATGCTTTGCTGAAACAGAAGTGCCTTCCCTGGGAATCTCAGATGGGAAGCAAGTAAGGAGGGGA
GTCAAATGTGGGCTCACTGCTCACCAGCTGTGAGGGTTGGGCCTGCCTCTTAACCATTGTCAGCCTCAGTCTTCT
CATCCATGCATGCCGTGGGTATACTAAAATACTATAACCCTGGGAAGAGCTGGATGCAAATTTGACAAGTTCTGGG
GGACACAGGAAGGTGCCAAGCACAAGGCTGGGCACATGGTGGCTGTGCACTACAGCTGAGTCCTTTTCTTTTCA
GAATCTGGGATGTTAACCAGAAGACCTTCTATCTGAGGAACAACCAACTAGTTGCTGGATACTTGCAAGGACCAA
ATGTCAATTTAGAAGGTGAGTGGTTGCCAGGAAAGCCAATGTATCTGGGCATCACGTCACTTTGCCCGTCTGTCT
GCAGCAGCATGGCCTGCCTGCACAAACCCTAGGTGCAATGTCCTAATCCTTGTGGGTCTTTGTATTCAAGTTTG
AAGCTGGGAGGGCCTGGCTACTGAAGGGCACATATGAGGGTAGCCTGAAGAGGGTGTGGAGAGGTAGAGTCTAGG
TCAGAGGTCAGTGCCTATAGGCAAGTGGTCCCAGGGCCACAGCTGGGAAGGGCAAATACCAGAAGGCAAGGTTGA
CCATTCCCTTCTCAAGTGCCTATTAAGGCTCCATGTTCTATGTTGTTCAAACCTAACTCAATCCCAAATTAA
TCCACCATGTATAAGGTTGAGCTATGTCTCTTATTTCCTGGACACCATACTCAGCCATATCTGGTCCACACATTAA
CAGCTGGATGACCTTGAAGAAGCTTACCCACTCTGTTCCCTCAGCTTTCCTTCAGTGGGATGATATCAACTGGA
CAACAGGATGTGCGATTCTTTTAGTTCCAGCCTTCCAGGATGTTTTCACTCCCTGTTTGTGTTGTAGGATGGT
ATTACCTCCACCTTCCACCTTCCCTATGCCCTGGTTCTGTCTCCTGTGCCTCGCTCTGAAAGTGGATGAGACCT
ACAATTCCTGTCTGTTAGTTCTCCTAATGAACACACTGAAGCACGAGGAAGCTGAGATTTTTGTTGCTACATGA
GAGCATGGAGGCCTCTTAGGGAGAGAGGAGGTTCCAGAGACTCCTAGGCTCCTGGTGGAGCCCCACTCATGGCCTT
GTTCATTTTCCCTGCCCCCTCAGCAACACTCCTATTGACCTGGAGCACAGGTATCCTGGGGAAAGTGAGGGAAATA
TGAGGAAATATGGACATCACATGGAACAACATCCAGGAGACTCAGGCCTCTAGGAGTAACTGGGTAGTGTGCAT
CCTGGGGAAAGTGAGGGAAATATGGACATCACATGGAACAACATCCAGGAGACTCAGGCCTCTAGGAGTAACTGG
GTAGTGTGCATCCTGGGGAAAGTGAGGGAAATATGGACATCACATGGAACAACATCCAGGAGACTCAGGCCTCTA
GGAGTAACTGGGTAGTGTGCTTGGTTAATCTTCTATTTACCTGCAGACCAGGAAGATGAGACCTCTCTGCCCTT
CTGACCTCGGGATTTTAGTTTTGTGGGGACCAGGGGAGATAGAAAAATACCCGGGGTCTCTTCATTATTGCTGCT
TCCTCTTCTATTAACCTGACCTTCCCTCTGTTCTTCCCCAGAAAAGATAGATGTGGTACCCATTGAGCCTCATG
CTCTGTTCTTGGGAATCCATGGAGGGAAGATGTGCCTGTCTGTCAAGTCTGGTGATGAGACCAGACTCCAGC
TGGAGGTAAAAACATGCTTTGGATCTCAAATCACCCAAAACCCAGTGGCTTGAAACAACCAAAATTTTTCTTA
TGATTCTGTGGGTTGACCAGGATTAGCTGGGTAGTTCTGTTCCATGTGGTGGAACATGCTGGGGTCACTTTGGA
GCTGCATTACAGCAGAGTGCCAGGCTTGCCTGGGCATCCAAGGTGGTCCCTCATCTCCAGGCTCTCTTTCCATG
TGATCTCTCAGTGTTAAGAGTTAGTTGGAGCTTCCCTACAGCATGGCGGCTGACTTCCAAAAGGGATTATTCCA
AAAAGAGCCTCAACATGCAGGCGCTTATTATGACTTCTGCTTGCATCATCCTATTGGCCAAAGCCAGTCACGTGG
CTAAGTCTAGCCCCCTGTGAGAGGAGACTGCATAAGAGTGTGAACACCAGGAGACACGGTCACTGGGGGCCACCA
CTGTAACCATCTACCACAGGACCTGAATCTCTGTGTGCTACTCCCTTGCTCAAGGGCCCCCTACCCACGCAGAC
CTGCTGTCTTCTAGCAAAGCCCATCCTCAGGACCTTTCTCTTCCAATCCTTATTGACTCAAATTGATTAGTTGGT
GCTCCACCCAGAGCCCTGTGCTCCTTTATCTCATGTAATGTTAATGGGTTTCCCAGCCCTGGGAAAACATGGCTT
TGTCTCAGGGGCTTGCTGGATGCAACCTTAACCTCAATGTGAGTGGCCATACTGTGGCACTGTCCCATCCCTCAC
CAGGGACACTGTTCTGGAGGGTGACTGCCTGTTCTGTGAGGAGTGGGGATGGCTAGGACATTGCATGGAACACAC
CACCACCCCATCTTCTCAGAGCTCAAACCCTGACAGAACACCAGCTCCACAGGCCTTGGCTTCTGCTGATGGTGC
CGTGTATTTACCAGACTTAGTGGTCCAAGGCCAGAGTGGCAGATTTCCCAAAGTCAAGGTGTGACAGTGGGACAG
CCTCTTTGTGTCTTTGCTGTCTTAAGAAACCTGGGCCAGGCCAGGCGCAGTGGCTCACGCCTTGAATCCCAGCA
CTTTGAGAGGCCAAGGTGGGCAGATCACGAGGTGAGGATTTGAGACCAGCCTGGCCAACATTGGTGAAACCCTG
TCTCTATTAATAAATAGAAAACATTAGACAGGTGTGGTGGTGCATGCCTGTAATCCCAGCTACTCAGGAGGCTGAG
GCAGGAGAATCGCTTGAACCCAGGAGGTGGAGGTTGCAGTGAGCCGAGATTGTGCCACTGCACTCCAGCCTAGGC

1110/2777
FIGURE 981D

GACAGAGCAAGACTCCGTCTCGGGAAAATTAATTAATAAATAAAATAAACCTAGGTCCCAGAGTCCCACAGAATGG
CAGACAGGAGCACCTGGGGGCTTTTAGGGTATGGCATTTCCTGTACTAACTCTGGGCTGTCCAGAGGCGATTT
CATGGCGTGGAGTGGAGAGGGAGGCAGCACAGGACTTCCTAGGCCTCAGCTCTCACCTGCCCATCTTTTGATTTTC
CAGGCAGTTAACATCACTGACCTGAGCGAGAACAGAAAGCAGGACAAGCGCTTCGCCTTCATCCGCTCAGACAGT
GGCCCCACCACCAGTTTTGAGTCTGCCGCCTGCCCCGGTTGGTTCTCTGCACAGCGATGGAAGCTGACCAGCCC
GTCAGCCTCACCAATATGCCTGACGAAGGCGTCATGGTCACCAAATTCTACTTCCAGGAGGACGAGTAGTACTGC
CCAGGCCTGCCTGTTCCCATTTCTTGATGGCAAGGACTGCAGGGACTGCCAGTCCCCCTGCCCCAGGGCTCCCGG
CTATGGGGGCACTGAGGACCAGCCATTGAGGGGTGGACCCTCAGAAGGCGTCACAACAACCTGGTTCACAGGACTC
TGCCTCCTCTTCAACTGACCAGCCTCCATGCTGCCTCCAGAATGGTCTTTCTAATGTGTGAATCAGAGCACAGCA
GCCCCTGACAAAAGCCCTTCCATGTCGCCTCTGCATTACAGGATCAAACCCCGACCACCTGCCCAACCTGCTCTCC
TCTTGCCACTGCCTCTTCCCTCCCTCATTCCACCTTCCCATGCCCTGGATCCATCAGGCCACTTGATGACCCCCAA
CCAAGTGGCTCCCACACCCTGTTTTACAAAAAAGAAAAGACCAGTCCATGAGGGAGGTTTTTAAGGGTTTGTGGA
AAATGAAAATTAGGATTTTCATGATTTTTTTTTTTTTCAGTCCCCGTGAAGGAGAGCCCTTCATTTGGAGATTATGTT
CTTTTCGGGGAGAGGCTGAGGACTTAAATATTCCTGCATTTGTGAAATGATGGTGAAAGTAAGTGGTAGCTTTTC
CCTTCTTTTTCTTCTTTTTTTTGTGATGTCCCAACTTGTAATAAATAAAAGTTATGGTACTATGTTAGCCCCATAA
TTTTTTTTTTTCTTTTAAACACTTCCATAATCTGGACTCCTCTGTCCAGGCACTGCTGCCAGCCTCCAAGCTC
CATCTCCACTCCAGATTTTTTACAGCTGCCTGCAGTACTTTACCTCCTATCAGAAGTTTCTCAGCTCCCAAGGCT
CTGAGCAAATGTGGCTCCTGGGGGTCTTTTCTTCTCTGCTGAAGGAATAAATTGCTCCTTGACATTGTAGAGCT
TCTGGCACTTGGAGACTTGATGAAAGATGGCTGTGCCTCTGCCTGTCTCCCCACCAGGCTGGGAGCTCTGCAGA
GCAGGAAACATGACTCGTATATGTCTCAGGTCCCTGCAGGGCCAAGCACCTAGCCTCGCTCTTGGCAGGTACTCA
GCGAATGAATGCTGTATATGTTGGGTGCAAAGTTCCCTACTTCTGTGACTTCAGCTCTGTTTTACAATAAAATC
TTGAAATGCCTATATTGTTGACTATGTCCTTGGCCTTGACAGGCTTTGGGTATAGAGTGCTGAGGAACTGAAA
GACCAATGTGTYTTYCTTACCCCGAGAGGCTGGCGCCTGGCCTCTTCTCTGAGAGTTCTTTTCTTCTTCAGCCTC
ACTCTCCCTGGATAACATGAGAGCAAATCTCTCTGCGGGG

1111/2777
FIGURE 982A

AGGGCGTGGTCAGCGCGGCCGAAGGGCGTGGTTGGCGCTCGGTCTGCCCTGCGCGTTTTGGGCTGCGGTTGGAG
GGCCGCAGTTGCAGTCAGGGTCCGCCAGCTCGGGGCCAGCGCATGGGGCTGCTGAGACCGCTCCGGACGTGCGAA
GCGTTCGCGGTGCGGTAGGAAGCTGAAGTCTTCAGCAGAACCCTGACCTAGGTAGGGAGTCTCAATGGCCCTGGG
TGAAGAAAAGGCAGAAGCGGAAGCATCTGAAGACACAAAGGCCAGTCTATGGGAGAGGGAGCTGCAGGGAGCG
GGAGCTGGACATCCCAGGGCCCATGAGTGGGGAGCAGCCCCACGCCTGGAAGCTGAGGGAGGGCTCATCTCCCC
TGTATGGGGGGCAGAAGGGATACCTGCCCTACTTGCTGGATTGGGACTGACCCTGGCGGGCCCTCTAGAGCCCCA
CCAGCCACAGGCCAGTGATGCCAACAGAGAGCCCGTAGCTGAGAGGTCTGAGCCTGCACTCAGTGGCCTGCCTCC
TGCCACCATGGGGTCTGGAGACCTTCTGCTCTCCGGGGAAAGCCAGGTGGAGAAGACCAAGCTTTCTTCTCCGA
GGAGTTCCCTCAGACTCTGAGCCTTCCCAGAAACAACATATTTGCTCAGGACATGATGCTGATACCGAAGATGA
TCCATCCCTAGCAGATTTGCCCCAGGCACTGGACCTCAGCCAGCAGCCTCACAGCTCAGGTCTCTCTTGCTGTC
ACAGTGAAGTCCGTGCTGAGCCAGGTTCCGCAGCTCAGCCTTCCAGCTGCAGCATCTCTGCTTCCCTCCACAGG
CAGCAGTCTCCAGGGTCACCAGGAGAGGGCGGAGCCTCGTGGTGGTTCTCTGGCCAAGGTCTCTCTCCCTCGGA
GCCGGTCTGTCCTCCAGGAACCTTCTCTGTGGTGGGGCTAGGACCTCGGCCCCAGTGGTCACCACAGCCTGTGTT
CTCTGGGGGTGATGCTTCTGGGCTAGGCAGGAGACGCCTCTCCTTCCAGGCTGAGTACTGGGCCTGTGTGCTGCC
AGATTCCCTGCCTCCATCACCCGACCGCCACTCCCCCTCTCTGGAACCCAAATAAAGAGTATGAAGATCTGCTTGA
CTATACTTACCCACTGAGGCCCGGGCCTCAGCTCCCAAAGCACCTTGATAGCCGTGTGCCAGCTGACCCCTGTCT
GCAGGACTCCGGGGTAGACCTGGATAGCTTCTCTGTCTCTCCAGCAAGCACCTCAAATCACCTACTAATGTCTC
CCCCAAGTGGCCACCAGCAGAGGGCCACTGCCCTGCCATTTTCTGGGCCCAGAGAGCCAAGCCTTAAGCAGTGGCC
CTCCAGAGTACCCAGAAACAGGGGTGGCATGGGCTTGGCATCTTGGAGCCAACCTTGCATCTACCCCCAGAGCCCC
AGGCAGTAGGGATGCTCGTTGGGAGCGCAGAGAGCCAGCCCTGAGGGGTGCGAAGGACCGGCTGACTATAGGCAA
GCACCTTGATATGGGCTCTCCCCAGCTAAGGACACGGGACAGAGGGTGGCCCTCGCCCAGGCCAGAGAGGGAGAA
GAGGACCAGCCAGAGTGGCCGGCGCCCTACCTGCACAGAGTCTAGGTGGAAATCAGAAGAGGAAGTGGAAAGTGA
TGACGAGTATCTTGCCCTCCCCGCTCGGCTGACACAGGTTTCTAGCCTGGTTTCGTATCTAGGATCCATTTCTAC
CTTGGTTACCCTGCCCCTGCGGATATCAAAGGGCAGAGCCCCCTTGAAGTGTGACAGTGTGAGGCCAGCTTC
CTTCCCTTCAAGCTCCAGCCAAAGCCAGCTTCCCCCTGGAGCTGCCCTCCAAGGATCTGGGGATCCTGAGGGCCA
GAATCCCTGTTTTCTGCGCTCCTTCGTCCGTGCCACGACTCCGCAGGGGAAGGCAGTCTGGGGAGCAGCCAGGC
CCTCGGGTCTCCTCTGGACTGCTGAAAACACGCCCTCCTTGCCAGCTAGGTTGGACCGGTGGCCATTCTCAGA
CCAGATGTTGAAGGGCAGCTTCCCAGGAAAGGAGGAGAACAGGGAAAAGAATCACTGGTGAATGTGTGAAGAC
ATTTTGCTGTGAGCTGGAAGAGCTGATCTGCTGGCTGTATAATGTTGCAGATGTTACTGACCACGGGACTGCAGC
CAGGTCCAATCTTACAAGTCTCAAGTCTTCTCTGCAGCTTTACCGGCAATTTAAGAAAGATATAGATGAACATCA
GTCTCTGACGGAGAGTGTCTTACAGAAGGGGGAGATTCTTCTTCACTGCTGTGGAGAACACCCCAGTTTTAGA
GGATGTCTTGGGAGGATCGCAAAGCAGTCTGGTGAGCTGGAGAGCCACGCAGATCGCCTGTATGACTCTATCTT
GGCCTCTCTGGACATGCTGGCTGGCTGCACCCTTATCCCTGACAAAAGGCCATGGCGGCAATGGAGCACCCTATG
TGAAGGGGTTTAACTGGCATCTTCTCAGGCAGAGGTGCAACCTGTGCGCCAAACACTGGCTAGTGAGAAAAAAT
CCTTCAAGAAGTCCTTGCAAGAGCCATTCAACACTGAAGTCAAGGGGGAACCTTCAATATACTAGCTTTAAAAAT
GCCTTTCTCCTCCCTGAATGGAGGGCTGAGTTACTATTTTTATTTACAATGAATCCTTCCAAACTAAGGTTTTCC
TTTTGGTGCTTCTCCACAAAGAGCGTGTAGCTTTGCAATTTTTGATAAAATAAGACGTGTTGCCTTCCCCCTCTAT
CCCATTAAAAAAGAGCAGATAAAGCTCAAACTATTCCACCTGGTAGGGTCATTTACCAAGGGCTGGTAGGAGATT
CCGAATACTCAATATTCTCAGGCATGCAAGAGGACCTAAGAGACTGAAAAAGTGAATTGTTGGCCAGAAACCTT
GGGTCTTTTTCATAAAGGAAATTTGGGCTTGTCAATCCCTCTTTAAAGATATAGGTAGAAAGAAGAGATTTTAAAC
CCTTTGTCTGCAAAAGAAAAAGGGTTAAATGAAGCATCTATACAGATGACTTTGGGAGATTATGACACCTTTTGC
CATCTTACAGGGCTTACGTCTTTACTTTCTTGGCTAACAGTTTCTTAGAAGAAAATGTGTGAGGGACTTGGGGAT
CTACAGTCATGCTTTAGCATGGCTATGGAGCTAATTATCAAGCTTAAAGGGTAACCTTTGGGAGGACTCCTCCCTT
CACTCCTAGTCTCCCTTGGAAAGAGCAGTCCAGGCTCAGGGAAGGGAATGGATAGGATGACACAGTAAGTACAGAA
ACTGAAGCTGTCAATAGTGAAGGAAAAAGGGGAATTTCTCGTTGCTTTGGCATTGACACATAAGTACTTTGATTA
AAAAAATAAACTATGGATCAACCATTCAAAGCATCAATTCTATAGCTTTTTCAGCAAGATGATCAGTTATT
GCTGGTAACTGCAGATTCTACAGAAAAGCACTTTTAAAGTTCTGTTGGGCCATGAATGAACCTGGAAGGAGGAAA
GCACAGTAACAATGGAACTAAAGTCCTATTATTAATGTGACTTTTCTGCTTCAGAATTTCTGAGACTTTATAGT

1112/2777
FIGURE 982B

CACTGGAAAATAGCCATTAAATTCTTTAAAGATTAGCTCTTCAACAGTAGCTACACATAAAATGCAGTATTTCAA
GTGCCTGATGCTGCTGTGGTATGCTTTATCATAATGCTTAAGGGCATGATCAAAATTTAAATGGCTTATGAGTTT
GCCATATTAATCATCTTAGTTCCATACACACTGAGACTTTAAAAGGGAAAAACCACTCTAGCAAATAATTGTCAA
TTATAAACCTGTATGTAAAACATTCTTGAAAACCTAGAGTTGGTTAAAAAGGTAGAGATGTCTGACGGCCTCTTC
TTAAATTGATATATTTTACCTTCTCTTAGATGTATATTTATAAGTAGGAACATGTCTTCCACTGAGTATGTTAC
TGAATAGCCCTTAGGAAATTAAACCCATTTATTTACTAATATTTGACAGGCATAGAAGTGTATTAATTAGCATAA
AAGTTGGAGATGAAAACCCATATAGAAACAAATTGGCCAATATTATACTAATTGAATGCAGAATGTGGCATTCTAT
TCCCAATTCAACTAATAATCAGCTTCAACTGACAGGAATTTGCACAGAATGTTACACAATACCCTGTTTCCCAAGA
AAGTACTACCTTACCTAGAGATGATCTAAGATATTTTGTTCATCTCTGAATAAGGTGAGACTAAAGGGTGCTA
ACTCCCTGGACCTGGCTGTGAATGCTACTGAAGAGTATCAACACAACCTGTTAATTATACCGCCGTGCTTTAAGTT
TAAGACTTACCTTAAAACCTCAAGCTGAAGGCTGGGCACGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGC
CGAGGCGGGTGGATCACAAGGTCAGGAGATCGAGACCATCCTGGCTAACACGGTGAAACCCCATCTCTACTAAAA
ATACAAAAAGAAATTAGCCAGGCGTGGTGTAGGGCGCTGTAGTCCCAGCTACTTGGGAGGCTGAGGCATGAGAA
TGGCATGAACCCGGGAGGCGGAGCTTGCAGTGAGCTGAGATGGCACCCTGCACTCCAGCCTGGGCAACAGAGTG
AGACTCTTGCTCAAAAAAAAAAATCAAGCTGAAATTGTTTCAGCCTAGTAAGATGCTGCCAGCAGCATTTCTA
TGAGCAAAACATGGCCAAATTAGAGTCAAGTAGCTGAGCTTGCTAACTGCACTGTGATGCCACACTGGAATAACTT
AGTAGTCCCTTAAAATTAATGGAAGTTAAATCCACAGGGAAGTGATGATACTCAAAGCTGGATCAGCAGTTTCAA
GATCTGGGTCTTGGAGATCCATAGGTAAGCTCAGCAAATGGAAGACGACGTCAACACAGGGCTATTTTGAAGCT
TAGGTGGGAATGGAACACAAAGAAGGTTTGAGGTAAGATATGCTGGAAAGGCAAGATGTAGGCTAAGGGAAATTC
AATCCAAGGTCGAAGAATAGGAAATTACTGCTCAGACCACAATGACTATCATTCTGAAAGGATTTACAGAGTGT
GCAGCTGCTTAGATTTAAGAACACTCTTCTTCACTATGTAACTAATTTATGGCAGCACCTTATATTTAGAACAA
GTGGTAATTCCCTTTACTAAGTGAACAGATTATTAACCTGTAGTAGCTTTGAACCGTTTGTACTTGAAAATGG
GGGTATAAAGGGTATATATTTTTTCCAGAACCACATTTATTGGCGTATACATAGAAGCAAATCTTAAGGCATGC
TGAAATTTGTTGTAAATCCCAATCTTTACTGCCATGGGGAAAAGAACGCTGGAATTTTCCAACTTAAGTCTGTA
AATATGCTCATCTTAAGTTCATGTAATGTTTCCGCTAACTCACCAAGAATAAGCTGACAATTTAAACAACTTTTA
CTGTGTAAAAATGAAGTGCACGGCATGGCATCACAGTATCTTGACATTTGTTTTGTGTCAATTTAGCTACTTTAGA
AAATAGTTTCTGAACTCTTTCCCCCTTTATACTGTATTAAGGCAAAAACAAAACCTTCTGAAGCATTAAAGATCTT
CACCAAAATAACTATTGGTAACTTCAGGAATTTGTCAGTTGCCTTATGTGAGGATGAATAGATCCACCAAGCACG
CCTATAATACAAAGTAACTATGATTTTTATTGTGAAATTTTCATAGATGGAAAATTGAATATTCTGTCCATTTT
ATTTTACAATTATCTTACCCTTATTTTTGTACCATGTATTTCAATTGCCTGTTTAGTGAAAAATAAAATTA
AAAACCT

1113/2777
FIGURE 983A

GGCCGAGTCGTGGCGGGAGACGGTGCAGCTGTACGAGGACGAGGTGCGCGAGCTGGAGGAGGCGCTGCGGCGCGG
CCAGGAGAGCAGACTCCAGGCGGAGGAAGAGACGCGGCTGTGCGCGCAGGAGGCAGAGGCGCTGCGGCGCGAGGC
GCTCGGGTTGGAGCAGCTGCGCGCGCGGCTGGAGGACGCGCTGCTGCGGATGCGCGAGGAGTACGGGATACAGGC
CGAGGAGCGGCAGAGAGCGATTGACTGCCTGGAGGATGAGAAGGCAACCCTCACCTTGGCCATGGCTGACTGGCT
GCGGGACTATCAGGACCTCCTGCAGGTGAAGACCGGCCTCAGTCTGGAGGTGGCGACCTACCGGGCCTTATTGGA
AGGAGAAAGTAATCCAGAGATAGTGATCTGGGCTGAGCACGTTGAAAACATGCCGTCAGAATTCAGAAACAAATC
CTATCACTATAACCGACTCACTACTACAGAGGGAATGAATGGAATCTATTTTCAAGGCAGAAAGCACCTTTGGC
AAGTTTCAATCACAGCTCGGCACCTGTATTCTAACCTGTCAGGGCACCGTGGATCTCAGACGGGCACATCTATTGG
AGGTGATGCCAGAAGAGGCTTCTTGGGCTCGGGATATTCTTCTCGGCCACTACCCAGCAGGAAAACCTCATACGG
AAAAGCCGTCAGCAGTCAAACCAACGTCAGAACTTCTCTCCAACCTATGGCCTTTTAAGAAATACTGAGGCTCA
AGTGAAAACATTCCCTGACAGACCAAAAGCCGGAGATACAAGGGAGGTCCCCGTTTACATAAGTGAAGATTCCAC
AATTGCCCCGCGAGTCGTACCGGGATCGCCGAGACAAGGTGGCAGCAGGTGCTTCGGAAAGCACACGGTCAAATGA
GAGGACCGTCATTCTGGGAAAAGAAAACAGAAGTGAAAGCCACGAGGGAGCAAGAAAGAAAACAGACCAGAAACCAT
CCGAACAAAGCCAGAAGAGAAAATGTTTCGATTCTAAAGAGAAGGCTTCTGAGGAGAGAAACCTAAGATGGGAAGA
ATTGACAAAGTTAGATAAGGAAGCGAGACAGAGAGAAAGCCAGCAGATGAAGGAGAAGGCTAAGGAGAAGGACTC
ACCGAAGGAGAAGAGTGTGCGAGAGAGAGAGGTGCCGATTAGTCTAGAAGTATCCCAGGACAGAAGAGCAGAGGT
GTCCCCGAAAGGTTTGACAGACGCCTGTGAAGGATGCTGGTGGTGGGACCGGTAGAGAGGCAGAAGCAAGAGAGCT
ACGGTTTCAGGTTGGGCACCACTGATGCCACTGGTTCTCTGCAAGGCGATTCCATGACAGAAACCGTAGCAGAAAA
CATCGTTACCAAGTATCCTGAAGCAGTTCACTCAGTCTCCAGAGACAGAAGCATCTGCTGATTCTTTTCCAGACAC
AAAAGTCACTTACGTGGACAGGAAAAGAGCTTCTGGGAAAAGGAAAACAAAGACTGAAATAGTTGTGGAGTCTAA
ACTGACTGAGGATGTTGATGTTTCCGATGAAGCTGGCCTGGACTACCTTTTAAGCAAGGATATTAAGGAAGTGGG
GCTGAAAGGCAAGTCAGCCGAGCAGATGATAGGAGACATCATCAACCTCGGCCTGAAAGGGAGGGAGGGGAGAGC
AAAGGTCGTCAACGTGGAGATCGTGGAGGAGCCCGTGAGTTATGTCAGCGGGGAGAAGCCGGAGGAGTTTCCGT
CCCATTCAAAGTGGAGGAGGTCGAAGATGTGTCGCCAGGCCCTGGGGGTTGGTTAAGGAGGAGGAAGGTTATGG
AGAAAGCGATGTACATTCTCAGTTAATCAGCATCGAAGGACCAAGCAGCCCCAGGAGAACACGACTCACGTGGA
AGAAGTGACAGAGGCAGGTGATTCAGAGGGCGAGCAGAGTTATTTTGTGTCCACTCCAGATGAACACCCCGGGG
GCACGACAGAGATGACGGCTCGGTGTACGGGCAGATCCACATCGAGGAGGAATCCACCATCAGGTACTCTTGGCA
GGATGAAATCGTGAGGGGACTCGAAGGAGGACACAGAAGGACGGTGCAGTGGGCGAGAAGGTTGTGAAGCCCTT
GGATGTCCCAGCGCCCTCTCTGGAGGGGGACCTGGGTTCCACTCACTGGAAAGAACAAGCTAGAAGCGGTGAATT
TCATGCCGAACCCACAGTCATTGAAAAAGAAATTAATAACCCACGAATTCCACACCTCCATGAAGGGCATCTC
CTCCAAGGAGCCCCGGCAGCAGCTGGTGGAGGTATCGGGCAGCTGGAGGAAACCCCTTCCCGAGCGCATGAGGGA
GGAGCTGTCCGCCCTCACCAGAGAGGGGCAGGGTGGGCCGGGGAGCGTTTCCGTGGATGTCAAGAAGGTCCAGGG
TGCTGGTGGCAGTTCCGTGACCCCTGGTTGCTGAAGTCAACGTTCTCAAACTGTGGATGCCGATCGGTTAGACCT
GGAGGAGCTGAGCAAAGATGAGGCCAGTGAGATGGAGAAGGCTGTGGAGTCGGTGGTTCGGGAGAGCCTGAGCAG
GCAACGCAGCCAGCGCCTGGCAGCCAGATGAGGAAGGTGGAGCGGAGGCCCGGCTGCTGGCATTGCTTCAG
GCGTTGGGCCACCCGGGAGCTGTACATCCCTTCAGGCGAGAGCGAGGTTGCTGCTGGGGCCTCTCACAGCTCGGG
ACAGCGCACTCCCCAGGGCCAGTGTCGGCCACTGTGGAGGTGAGCAGCCCCACAGGCTTTGCCAGTCACAGGT
GCTGGAGGATGTGAGCCAGGCTGCAAGGCACATAAACTCGGCCCTCTGAAGTCTGGAGGACTGAGCGAATGTC
ATATGAAGGACCCACTGCAGAAGTGGTGGAGGTAAGTGCGGGAGGTGACCTAAGTCAGGCAGCGAGCCCCGACCGG
AGCCAGCCGGTCTGTGAGGCATGTACGCTGGGTCCCGGTCAAAGTCCACTGTCCAGAGAAGTCATCTTCCTAGG
CCCTGCCCCCTGCTGTCCAGAGGCATGGGGCTCGCCAGAACCTGGCCCAGCAGAGTCTTCTGCAGATATGGACGG
ATCAGGGAGGCACAGCAGATTTGGCTGCAGACAATTTATGCTGAAAAGGAGATTATTTTTCAGGGCCCCATTTT
TGCTGCAGGGAAGGTTGGTGATTATTTTGAACAGAAGAGTCAGTGGGTACCCAGACTTCTGTCAGGCAACTCCA
GTTAGGCCCTAAAGAAGGGTTCAGTGGGCAAATCCAGTTCACAGCTCCACTTTCAGACAAGGTGGAGTTGGGTGT
CATAGGAGATTCTGTACACATGGAAGGGTTGCCAGGGAGCAGCAGATCCATCAGGCACATCAGCATTGGGCCTCA
GAGGCATCAGACCACCCAGCAGATAGTTTACCATGGGCTGGTTCCCCAACTGGGGGAATCTGGTGACTCAGAGAG
CACTGTGCACGGAGAGGGCTCAGCAGATGTGCACCAGGCCACTCACAGTCATACCTCGGGTAGACAAACCGTTAT
GACTGAAAAGAGCACCTTCCAAAGTGTCGTTTCTGAATCTCCCAGGAGGATAGTCAGGGGACACATCAGGGGC

1114/2777
FIGURE 983B

AGAAATGACATCGGGTGTAGCAGATCCTTTAGGCACATTCGACTAGGTCCTACAGAAACGAAACCTCTGAACA
CATTGCCATCCGTGGACCCGTGTCCAGAACATTTGTGCTTGCTGGTTCAGCGGACTCCCCTGAGCTAGGCAAGTT
AGCAGACAGCAGCAGAACGCTAAGGCACATTGCACCAGGGCCCAAAGAAACTTCGTTTACCTTTCAGATGGATGT
GAGTAACGTAGAGGCGATCCGCAGCCGGACACAGGAAGCGGGAGCTCTCGGTGTGTCTGACCGTGGTTCCTGGAG
AGACGCGGACAGTAGGAATGACCAGGCAGTTGGTGTGAGCTTTAAGGCCTCTGCTGGGGAAGGAGACCAGGCCCA
CAGAGAACAGGGCAAGGAGCAGGCCATGTTTGATAAGAAGGTGCAGCTCCAGAGAATGGTAGACCAAAGGTCGGT
GATTTTCAGATGAAAAGAAAGTTGCCCTCCTCTATCTAGACAATGAGGAGGAGGAGAATGATGGGCATTGGTTTTTA
ATAAGCAGAAACATTTTGTTTTAATGGCAGCCTGTTGGCGACGTGCCAACATCCAAAGGCCTTAACTTATTTTAA
GAGGCCGAGGGAGTCTATGAAAATCTCCCTTTTTTACTTTTTTAAAGAGTACTCCCGGCATGGTCAATTTCCCTT
TATAGTTAATCCGTAAAGGTTTCCAGTTAATTCATGCCTTAAAGGCCTGCAATTTTATTTTTGAGTTGGGACT
TTTACAAAACACTTTTTTCCCTGGAGTCTTCTCTCCACTTCTGGAGATGAATTTCTATGTTTTGCACCTGGTCAC
AGACATGGCTTGCATCTGTTTGAACTACAATTAATTATAGATGTCAAAACATTAAACCAGATTAAAGTAATATAT
TTAAGAGTAAATTTTGCTTGCATGTGCTAATATGAAATAACAGACTAACATTTTAGGGGAAAAATAAATACAATT
TAGACTCTAAAAAGTCTTTTCAAAAAGAAATGGGAAATAGGCAGACTGTTTATGTTAAAAAAATTCCTGTAAAT
GATTTTCATCTTTAGGAAAAAATTACTTGCCATATAGAGCTAAATTCATCTTAAGACTTGAATGAATTGCTTTCTA
TGTACAGAACTTTAAACAATATAGTATTTATGGCGAGGACAGCTGTAGTCTGTTGTGATATTCACATTCATTTT
GCACAGGTTCCCTGGCACTGGTAGGTTAGATGATTATTGGGAATCGCTTACAGTACCATTTCATTTTTTGGCACT
AGGTCATTAAGTAGCACACAGTCTGAATGCCCTTTTCTGGAGTGGCCAGTTTCTATCAGACTGTGCAGACTTGGC
CTTCTCTGCACCTTATCCCTTAGCACCCAAACATTTAATTTCACTGGTGGGAGGTAGACCTTGAAGACAATGAAG
AGAATGCCGATACTCAGACTGCAGCTGGACCGGAAGCTGGCTGTGTACAGGAAAATTGGAAGCACACAGTGGAC
TGTGCCTCTTTAAAGATGCCCTTTCCCAACCCTCCATTTCATGGGATGCAGGTCTTTCTGAGCTCAAGGGTGAAAGAT
GAATACAATAACAACCATGAACCCACCTCACGGAAGCTTTTTTGCACCTTTGAACAGAAGTCATTGCAGTTGGGG
TGTTTTGTCCAGGGAAACAGTTTATTAAATAGAAGGATGTTTTGGGGAAGGAAGTGGATATCTCTCCTGCAGCCC
AGCACCGAGATACCCAGGACGGGCTGGGGGGCGAGAAAGGCCCCCATGCTCATGGGCCGCGAGTGTGGACCTG
TAGATAGGCACCAACGAGTTTAAGATACTGGGATGAGCATGCTTCATTGGATTCAATTTATTTTACACGTCAGTA
TTGTTTTAAAGTTTCTGTCTGTAAAGTGTAGCATCATATATAAAAAGAGTTTCGCTAGCAGCGCATTTTTTTTAG
TTCAGGCTAGCTTCTTTCACATAATGCTGTCTCAGCTGTATTTCCAGTAACACAGCATCATCACTGACTGTGG
CGCACTGGGGAATAACAGTCTGAGCTAGCACCAACCTCAGCCAGGCTACAACGACAGCACTGGAGGGTCTTCCCT
CTCAGATTACCTGGAGGCCCTCAGACCCCAAGGTGCACGTCTCCCCAGGTCTTGGGAGTGGCTACCGCAGGTA
GTTTCTGGAGAGCACGTTTTCTTCATTGATAAGTGGAGGAGAAATGCAGCACAGCTTTCAAGATACTATTTTAAA
AACACCATGAATCAGATAGGGAAAGAAAGTTGATTGGAATGGCAAGTTTAAACCTTTGTTGTCCATCTGCCAAAT
GAAGTAGTGATTGTCAGACTGGTATGGAGGTGACTGCTTTGTAAGGTTTTGTCGTTTCTAATACAGACAGAGATG
TGCTGATTTTGTTTTAGCTGTAACAGGTAATGGTTTTTGGATAGATGATTGACTGGTGAGAAATTTGGTCAAGGTG
ACAGCCTCCTGTCTGATGACAGGACAGACTGGTGGTGAGGAGTCTAAGTGGGCTCAGTTTGTATGTCAGTGTCTGG
GCTCATGACTTGTAAATGGAAGCTGATGTGAACAGGTAATTAATATTATGACCCACTTCTATTTACTTTGGGAAA
TATCTTGGATCTTAATTATCATCTGCAAGTTTCAAGAAGTATTCTGCCAAAAGTATTTACAAGTATGGACTCATG
AGCTATTGTTGGTTGCTAAATGTGAATCACGCGGGAGTGAGTGTGCCCTTCACACTGTGACATTGTGACATTGTG
ACAAGCTCCATGTCTTTTAAATCAGTCACTCTGCACACAAGAGAAATCAACTTCGTGGTTGGATGGGGCCGGAA
CACAACAGTCTTTTTGTATTTATTGTTACTGAGACAAAACAGTACTCACTGAGTGTTTTTTCAGTTTCCCTACTGG
TGGTTTTGATATTGTTTGTTTAAGATGTATATTAGAAATGACATCATCTAAGAAGCTGATTTTGCTAAACTCCTG
TTCCCTACAATGGGAAATGTACAAAGATGTGCAAAAATAAAATCTGAGG

1115/2777
FIGURE 984A

CCCGGGTATCAAAAGAAGGATCGGCTCCGCCCGGGCTCCCCGGGGGAGTTGATAGAAGGGTCCTTCCCACCCT
TTGCCGTCCCCACTCCTGTGCCTACGACCCAGGAGCGTGTGAGCCAAAGCATGGAGAATCAAGAGAAGGCGAGTA
TCGCGGGCCACATGTTTCGACGTAGTCGTGATCGGAGGTGGCATTTCAGGACTATCTGCTGCCAAACTCTTGACTG
AATATGGCGTTAGTGTTTTGGTTTTAGAAGCTCGGGACAGGGTTGGAGGAAGAACATATACTATAAGGAATGAGC
ATGTTGATTACGTAGATGTTGGTGGAGCTTATGTGGACCAACCCAAAACAGAATCTTACGCTTGTCTAAGGAGC
TGGGCATAGAGACTTACAAAGTGAATGTCAGTGAGCGTCTCGTTCAATATGTCAAGGGGAAAACATATCCATTTC
GGGGCGCCTTTCCACCAGTATGGAATCCCATTCATATTTGGATTACAATAATCTGTGGAGGACAATAGATAACA
TGGGGAAGGAGATTCCAACGTATGCACCCTGGGAGGCTCAACATGCTGACAAATGGGACAAAATGACCATGAAAG
AGCTCATTGACAAAATCTGCTGGACAAAGACTGCTAGGCGGTTTTGCTTATCTTTTTTGTGAATATCAATGTGACCT
CTGAGCCTCACGAAGTGCTGCCCTGTGGTTCTTGTGGTATGTGAAGCAGTGCGGGGGCACCCTCGGATATTCT
CTGTACCAATGGTGGCCAGGAACGGAAGTTTTGTAGGTGGATCTGGTCAAGTGAGCGAACGGATAATGGACCTCC
TCGGAGACCAAGTGAAAGCTGAACCATCTGTCACTCACGTTGACCAGTCAAGTGACAACATCATCATAGAGACGC
TGAACCATGAACATTATGAGTGCAAATACGTAATTAATGCGATCCCTCCGACCTTGACTGCCAAGATTCACTTCA
GACCAGAGCTTCCAGCAGAGAGAAAACCAGTTAATTACGCGTCTTCCAATGGGAGCTGTCAATAGTGCATGATGT
ATTACAAGGAGGCCCTTCTGGAAGAAGAAGGATTACTGTGGCTGCATGATCATTGAAGATGAAGATGCTCCAATTT
CAATAACCTTGGATGACACCAAGCCAGATGGGTCACTGCCTGCCATCATGGGCTTCATTCTTGCCCGGAAAGCTG
ATCGACTTGCTAAGCTACATAAGGAAATAAGGAAGAAGAAAATCTGTGAGCTCTATGCCAAGTGCTGGGATCCC
AAGAAGCTTTACATCCAGTGCATTATGAAGAGAAGAACTGGTGTGAGGAGCAGTACTCTGGGGGCTGCTACACGG
CCTACTTCCCTCCTGGGATCATGACTCAATATGGAAGGGTGATTTCGTCAACCCGTGGGCAGGATTTTCTTTGCGG
GCACAGAGACTGCCACAAAGTGAGCGGGCTACATGGAAGGGGCAGTTGAGGCTGGAGAACGAGCAGCTAGGGAGG
TCTTAAATGGTCTCGGGAAGGTGACCGAGAAAGACATCTGGGTACAAGAACCTGAATCAAAGGACGTTCCAGCGG
TAGAAATCACCCACACCTTCTGGGAAAGGAACCTGCCCTCTGTTTCTGGCCTGCTGAAGATCATTGGATTTTCCA
CATCAGTAAGTGCCTGGGGTTTTGTGCTGTACAAATACAAGCTCCTGCCACGGTCTTGAAGTTCTGTCTTATGC
TCTCTGCTCACTGGTTTTCAATACCACCAAGAGGAAAATATTGACAAGTTTAAAGGCTGTGTCATTGGGCCATGT
TTAAGTGTACTGGATTAACTACCTTTGGCTTAATTCCAATCATTGTAAAGTAAAAACAATTCAAAGAATCACC
TAATTAATTTAGTAAGATCAAGCTCCATCTTATTTGTGCTAGTGTAGATCAACTCATGTTAATTGATAGAATAAAG
CCTTGTGATCACTTTCTGAAATTCACAAAGTTAAACGTGATGTGCTCATCAGAAACAATTTCTGTGTCCTGTTTT
TATTCCTTCAATGCAAAATACATGATGATTTCAGAAACAAAGCATTGTGACTTTCTGTCTGTGGAGGTGGAGTAG
GTGAAGGCCCAGCCTGTAAGTGTCTTTTTCTTCCCTTAGGCAATGGTGAAGTGTGCTTACAGAGCCTAGAGGCT
CACAGCCTCCTGGAGGAAGCAGCCTCCACTTTGGATCAGGAAATAGTAAAGGAAAGCAGTGTTGGGGGTAGCGGC
ATGCAGACCCTCAGACCAGAAATGGGGACATCTTGTGGTCTGCTGCCTCAGGAATCTCCTGACCCTTGTAGTCCC
TCCGACTTCTCTAGACATCTAGTCTCAGTGCTAGCTTATTTGATTTTTCTCTTTTCACTTCTTATGGAGGAGAG
TGTTTAACTGAGTTAGAATGTGAAACTGACTTGCTGTGACTTATGTGCAGCTTTCCAGTTGAGCAGAGGAAAT
AGTGGCAGGACTGTCCCCAGGAGGACTCCCTGCTTAGCTCTGTGGGAGACCAACTACGACTGGCATCTTCTCTT
CCCCCTGGAAGGCAGCTAGACACCAATGGATCCTTGTGAGTTGTAACATTCTATTTCAACTTCAGGAAAGCAGCA
GTTTTCTTTTAAATTTTCTATGACCATAAAATTAGACATACCTCTCAACTTACATATGTCTTCAACATGGTTAC
CTCTGCATAAATATTAGCAAAGCATGCCAATTTCTCTTAAGTACTGAAATACATATGATAAATTTGACTGTTATT
TGTTGAGACTATCAAACAGAAAAGAAATTAGGGCTCTAATTTCTTAAAGCAAGCTCACTTGCTTTAGTTGTTAA
GTTTTATAAAAGACATGAAATTGAGTCATTTTATATATGAAAATAAGTTCTCTATCTTAGGAGTAATGTCGGCC
CACAAGGGTGCCACCTCTTGTTTTCCCTTTTTAAAACTCAGATTTTTTAAAGCCCTTTCCAAAGGTTTCAACT
GTAAAATACTTCTTTTTTACAATGTATCAACATATTTTTATTTAAGGGGAATTAACAATTGCCAGGGAAACCAGCC
AACCCAAGTTTATTATATCATTAACTTATCATAAATTCAAACCTAAGTTGCTGGACCCTGGTGTGAGGACATAA
ATCTTCCAAAGTTTTGCCTATCCTAAGAGCTGCATTTTTCTACTGCTCTTTACCTTGCATTTAGCTAATTTAGG
AGTTTTGAGAATGTATTGGATACGCTCCAGTACATAAGGAGTTGCCGCATATTATATCAGACTGCTTTGAGAAAT
CTCATCCCTAGTCTATTGCAGTTGTTTCTATTAGCTTACTGATTAACCTCAGTCCTGACACACCTTTTGGGAAATG
CTGATTTAACTTCTTAACTGGCAACAGTTGGAACAGTAATCAGTTTGCTAACATATTTAAAGTCTTGAATGTTG
AAGAAGTCTGTGATTTACCTTTTCAACTTTTTGGAAAACGATTTAATTTATTCTAATTAGATTAAACCTATTA
ATCTATGGATTGGGTATCAAAATGAATGCCAGTCCAGATGTGCCTAGACACGAAATTGGAGCTGAGGACTCTCAC

1116/2777
FIGURE 984B

GATATGCAAGTTCATCCAACGTGAAGATACCATAAGCTTTTTCTCTGAACCAGAGAAATGAAAGTCAGTTTAAGA
GGCTGATAGATCTTGGCCCTGTTAAGGCATCCACTTCACAGTTCTGAAGGCTGAGTCAGCCCCACTCCACAGTTA
GGCCAAGAATTAGATTTTAACTTCATCTGTCTGTCCCAGTTAACTGTTAAATAAGGCCTCATCCTCCACTGAA
GAGTATGGATTGAAGGATTGTGAACTATGTTTAGTGTGATTGTGAACTTGGTGCCTAATGTTCCATGTCTGAAGT
TTGCCCCAGTGCTACACGTTGGAGTATACCTATGTGTGTGCTTTGCCACTGAAGTAAGATTTTGCCTGTATGGTA
CTGTTTGTGTTGTTAATAAAGTGCACTGCCACCCCAATGCAA

1117/2777
FIGURE 985

RVSKEGSAPPPGSPGELIEGSFPPFAVPTPVPTTQERSQSMENQEKASIAGHMFVVDVIGGGISGLSAAKLLTE
YGVSVLVLEARDRVGGRTYTIRNEHVDYVDVGGAYVGPTQNRILRLSKELGIETYKVNVSERLVQYVKGKTYPFR
GAFFPVWNP IAYLDYNNLWRTIDNMGKEIPTDAPWEAQHADKWDKMTMKELIDKICWTKTARRFAYLFVNINVT
EPHEVSALWFLWYVKQCGGTTRIFSVTNGGQERKFVGGSGQVSERIMDLLGDQVKLNHPVTHVDQSSDNIIETL
NHEHYECKYVINAIPPTLTAKIHFRPELPAERNQLIQRLPMGAVIKCMMYYKEAFWKKKDYCGCMIEDEDAPIS
ITLDDTKPDGSLPAIMGFILARKADRLAKLHKEIRKKKICELYAKVLGSQEALHPVHYEKNWCEEQYSGGCYTA
YFPPGIMTQYGRVIRQPVGRIFFAGTETATKWSGYMEGAVEAGERAAREVLNGLGKVTEKDIWVQEPESKDVPV
EITHTFWERNLPSVSGLLKIIGFSTSVTALGFVLYKYKLLPRS

1118/2777
FIGURE 986A

GCTCTCGCGGCAGTTTCAGACCTCGTGCTCGTCCCCTTCGCCTGTCTGTGTGTGGTATCCGTAGGTCCGGGGCACT
TTTTTTTTTGGTGTGTGTGTGTGTGTGCGTGC GCGCGTGTGTGTGTGTGTGTTGGGTGTGTGTGTTTTGGGGGTTTGCCGGG
GCGCGGAGAGGAGAGCCGGGCCGAGGGGAAGGAAGGAAGCCGTAGAGCTCCCCGGTCTCGGGCTGCGTCTCCCT
CCAGCGCTCTCCTGCCTGTGCGCTCCGACGCGGCAGCGCGGTGGCGCTGAGCGCTCCTCGGTGGGGACGCGGTG
CTCAAGCTGGGAGCAGCGAGAACCCTTTGCGGAGGCTTCCCGTGCCGCTGGACTTAGGATGCCAGGGCGTTTGA
TTTGCACCTACTGAGCCCGGAGTTCTTCCCCGGCCCTGGGAAGGGCTTGACGCGCGCGCGCGCGCGCGGCGGCGAGCG
GCAGTAGCAGACGGAACAGCAGGCTCTCCTCTCCGAGGGGGGGCGTGAAGCGCCCCGCGCGGGCTCCCGCCCTC
ACCCTCCGGCGCTCCTGCGGCCCCAAGCCACCACCTCGTAGCCCGCCTCCTTCTTCTCGCCGCGAGCCCCAG
GCCCCGACGCTCTAGGATCGGACCCGCGCGCCCCGGATGCTTGGGGCTGCCCCGCGCGCCCCCTACAGGCGC
GACCCGCTGAGTGACCCGGAGGGGGCCGAGCTCGCCCCAGGAGGGGGCCCCCGGCTCGGGACCCGCGCCGGAC
CTGCTGGGGAGCCGACGATGTCCGCGCAGTCCAGGCATTGACGCGCTCGACGACGCCAGGGAAGGCGGCCGGC
CGCTGCCCCGCGAGCCCTAGGCGCACAAAGCCCGCGCCCGCGCCCCGGCGCCCCGCGCGGCGGCGGCGGCGGCG
CCTGCTCCGCGGCTCTTTGTCTCCACTTGGGGCGGGCGCCGACTCTGGGATTTGCTGCGAGAACGAGCTGGGG
GGGCGGGGGCGAGCTCTCGGTTTCCCCGGCCGCCCCCGCTCGGGCTCGGCTCCCCCTCCCCCGACCTCCCCG
GCCCCGGGCTCTCGGCGCTTCCACGCTCTCGGAATCACGACCCCTCCCTGCCATGTATCCGAGGGCAGACATCCG
GCTCCCCATCAACCCGGGCAGCCGGGATTTAAATTACGGTGGCTGAGTCTTGTGACAGGATCAAAGACGAATTC
CAGTTCTTGCAAGCTCAGTATCACAGCCTCAAAGTGGAGTACGACAAGCTGGCAAACGAGAAGACGGAGATGCAG
CGCCATTATGTGATGTACTATGAGATGTCTATGGCTTGAACATTGAAATGCACAAGCAGACAGAGATTGCGAAG
AGACTGAACACAATTTTAGCACAGATCATGCCTTTCTGTGTCACAAGAGCACCAGCAGAGGTGGCGCAGGCAGTG
GAGCGCGCCAAGCAGGTCACCATGACGGAGCTGAACGCCATCATCGGGCAGCAGCAGCTCCAGGCGCAGCACCTC
TCCCATGCCACACACGGCCCCCGGTCCAGTTGCCACCCACCCGTCAGGTCTCCAGCCTCCAGGAATCCCCCA
GTGACAGGGAGCAGCTCCGGGCTGCTGGCACTGGGCGCCCTGGGCAGCCAGGCCCCATCTGACGGTGAAGGATGAG
AAGAACCACCATGAACTCGATCACAGAGAGAGAGAATCCAGTGCGAATAACTCTGTGTACCCCTCCGAAAGCCTC
CGGGCCAGTGAGAAGCACCGGGGCTCTGCGGACTACAGCATGGAAGCCAAGAAAGCGGAAGGCGGAGGAGAAGGAC
AGCTTGAGCCGATACGACAGTGATGGGGACAAGAGTGATGATCTGGTGGTGGATGTTTCCAATGAGGACCCCGCA
ACGCCCCGGGTGAGCCCGGCACACTCCCTCCTGAAATGGGCTGGACAAGGCCCCGTAGCCTGAAAAAAGATGCC
CCCACAGCCCTGCCTCGGTGGCCTCTTCCAGTAGCACACCTTCTTCCAAGACCAAAGACCTTGGTCATAACGAC
AAATCCTCCACCCCTGGGCTCAAGTCCAACACACCAACCCCAAGGAACGACGCCCCAACTCCAGGCACCAGCAG
ACCCAGGGCTCAGGTGATGCCGGCCTCGGCTCTGCGCAGCCCATCTCCATCACCAGCTCCTATGCGGCGCCC
TTCGCCATGATGAGCCACCATGAGATGAACGGCTCCCTCACCAGTCTTGGCGCTACGCCGGCTCCACAACATC
CCACCCAGATGAGCGCCGCGCGCGCTGCTGCAGCCGCTGCCTATGGCCGATCGCCAATGGTGAGCTTTGGAGCT
GTTGGTTTTGACCCCTCACCCCCGATGCGGGCCACAGGCCTCCCTCAAGCCTGGCCTCCATTCTTGGAGGAAAA
CCAGCGTACTCATTCCATGTGAGTGCTGATGGGCAGATGCAGCCCGTGCCTTCCCCCAGCAGCCCTGGCAGGC
CCGGCATCCCAGGCACGCCCGGCAGATCAACACACTCAGCCACGGGGAGGTGGTGTGTGCCGTGACCATCAGC
AACCCACGAGGCACGTCTACACAGGTGGCAAGGGCTGCGTGAAGATCTGGGACATCAGCCAGCCAGGCAGCAAG
AGCCCCATCTCCCAGCTGGACTGCCCTGAACAGGGACAATTACATCCGCTCCTGCAAGCTGCTCCCTGATGGGCGC
ACGCTCATCGTGGGCGGCGAGGCCAGCAGCTCACCATCTGGGACCTGGCCTCGCCACGCCCCGCATCAAGGCC
GAGCTGACGTCTCGGCTCCCGCCTGTTATGCCCTGGCCATTAGCCCTGACGCCAAAGTCTGCTTCTCCTGCTGC
AGCGATGGGAACATTGCTGTCTGGGACCTGCACAACCAGACCCTGGTCAGGCAGTTCCAGGGCCACACAGATGGG
GCCAGCTGCATAGACATCTCCCATGATGGCACCAACTGTGGACAGGGGGCCTGGACAACACGGTGCGCTCCTGG
GACCTGCGGGAGGGCCGACAGCTACAGCAGCATGACTTCACTTCCCAGATCTTCTCGCTGGGCTACTGCCCCACT
GGGGAGTGGCTGGCTGTGGGCATGGAGAGCAGCAACGTGGAGGTGCTGCACCACACCAAGCCTGACAAGTACCAG
CTGCACCTGCACGAGAGCTGCGTGCTCTCCCTCAAGTTCGCCTACTGCGGCAAGTGGTTCTGTAGCACTGGGAAA
GATAACCTTCTCAACGCCTGGAGGACGCCTTATGGAGCCAGCATATTCCAGTCTAAAGAATCCTCGTCTGTCTTG
AGTTGTGACATTTTCAGCGGATGACAAATACATTGTAACAGGCTCTGGTGACAAGAAGGCCACAGTTTATGAGGTC
ATCTACTAAACAAGAACTCCAGCAGGGCTGTCAAACCTCTGGGAGAAACCGACTCGGCTCTGACAGGGAGACCCCC
AGGCGAGGGGGCCCCGAGGATGGCGGAGGATGGGCCGAGGCAGCCGAGCGTTAGGGCTGCGCTCCGGCCGGCTG
AGAGGGCACGTGCCCCGTACAGTCTGGACTCCTGGGCCTGGATTGATGTGTCTCACAGACTCGGAAGGGTTCTG

1119/2777
FIGURE 986B

CTCCTCCTCCTCCCCCTGAACAATGCTGGCAGTTGCTACAAATAGATTTATTGGAGGCTTATGGCTCCGGTTCCC
CCACAGACCCGCTCATGAGTCTCTGTTTGTCTTCCCTTTTCTTTTGCCCTGTCCCTCACCTTGGGTCGGGGGTG
CTGGAGTGGACCACAATGTTGTGCTGGGGGATGGGGGGTCTCTCTTTGCCGATTGTGCAGTGCACAAGATTTGT
GAAAAATGTAAATAACAGACTCCTATTGCGGACTGATCAGTGGGAGAGGAGGCCCTTCCCACCGGAACTCTGA
GTGTGTATTTGCGCTGCTGTATTTGTAATCCACTCGTGGTGGTGGCTTTTTTTTTTTTTTTTTTAAATAAACAG
ATGCTCTCACCTGGGAAGAGGAGACAGGGAGGGGAACCAATTGAAGAAAGAGGAGAAAAGTCTTAGAGTGTGGAA
AAGGCAACCAGGTTGGCCGTAAAGGTGCCTGCTGGAATGCGTGTGCCTCCACACGGGTCTGGGCATCCGGACTGAT
AACCAGCCGGCCAGACTGAGGGATGGAAGGCACTGAGATGGGGGCCCGTCCAGGCGGACACCCGCAGAAATGGAG
CTTTCTGTGGTCTCTTGCACTCTGGCTGCCTCTTGCCCTCTCTGTGTCTCTCTTTCTTGGTCTCTCCCTCTCTCC
TCCTCAGCCTGGTCTTTCTCTTTGGTGCACACTTAGTTATTGTTGTGAGCAATGGAAGTTCAAAGGAACTCCCTC
TCCAGCTCTTCTGAATCTTGGGACACAGCCTAAAAAGGACAAAAAGTTAGAAGACAGCATAGCAACTCAGCTCAG
GGAGCTACCAGAGAAAAATAGCAACTGATGTGGGTGCTTTTTTTTTTTTTTAAATTTGAATAAAAAAGAAATTAGAAG
TGATGTCCTTTTATAAAATGCCTTCTCCCCCTTCCCGCCTACAGTCTCTTCTCTCCCCCTTAGAGGGGGGAAAGT
GTATAAACCTACAGGGTTGTGAGTCTGAAAAGAGGATCCCCCTCACCCCCACCCTGGGCAGAGCAGTGGGGGTTG
GGGGGTGGGAGAGGGGGACACAGATCCTGGCACACTGTGGATATTTCTTGCAGATTGCAGTCTCTTGTGGCCCAA
ACAGGTTAGGTAGACTATCGCCTCTGGCAGGTGCCACCTTTTGGTACCAACATGTTCTGAGGTGTTAGGATTTGG
GTTGGGTTTTTTTTGTTTGTTTTTTTTTTCCTTTTTGGTCTTTTTTTTTTTCTCCTTTTAAAGAAAAGCTAAAGG
CCGCTGTGAGTCCTGGTGGCAGGCTCTCCATGGATGTAGCATATCGAAGATAATTTTATACTGCATTTTATGG
ATTATTTTGTAAATGTGTGATTCCGTCTGCTGAGGAGGTGGGAGGGGCTCCAGGGAAAGCCACCCACCTTCAGTGA
GGTTGCTCCCCAGCTGAGCGCACCGGGCATGGGATGTGGAGGCTGGCGACACACCTGTGCCTCTCCAAGGCTGG
GCGCGTGGGGCGTCCAGAGTCTCTCTGGGTCTCAGATGTCCATCTGCCACCTCTTGTTAAGGCTCTAGCCAGAAG
GGAGGGTGAGGGTAGAAGAAAGTTATTCTC

1120/2777
FIGURE 987A

CTGTGCAACGGGGTCAAACGACTGTGGTGACAACAGCGACGAAAGCCACAGCAGAATTGCCGGCCCCGGACGGGT
GAGGAGAACTGCAATGTTAACAACGGTGGCTGTGCCCAGAAGTGCCAGATGGTGCGGGGGCAGTGCAAGTGTACC
TGCCACACAGGCTACCGGCTCACAGAGGATGGGCACACGTGCCAAGATGTGAATGAATGTGCCGAGGAGGGGTAT
TGCAGCCAGGGCTGCACCAACAGCGAAGGGGGCTTTCCAATGCTGGTGTGAAACAGGCTATGAACTACGGCCCCGAC
CGGCGCAGCTGCAAGGCTCTGGGGCCAGAGCCTGTGCTGCTGTTCCGCAATCGCATCGACATCCGGCAGGTGCTG
CCACACCGCTCTGAGTACACACTGCTGCTTAACAACCTGGAGAATGCCATTGCCCTTGATTTCCACCACCGCCGC
GAGCTTGTCTTCTGGTCAGATGTCACCCTGGACCGGATCCTCCGTGCCAACCTCAACGGCAGCAACGTGGAGGAG
GTTGTGTCTACTGGGCTGGAGAGCCAGGGGGCTGGCTGTGGATTGGGTCCATGACAACTCTACTGGACCGAC
TCAGGCACCTCGAGGATTGAGGTGGCCAATCTGGACGGGGCCACCAGGAGGTGTTGCTGTGGCAGAACCTGGAG
AAGCCCCGGGCCATTGCCCTTGCATCCCATGGAGGGTACCATTACTGGACAGACTGGGGCAACACCCCCGTATT
GAGGCCTCCAGCATGGATGGCTCTGGACGCCGCATCATTGCCGATACCCATCTCTTCTGGCCCAATGGCCTCACC
ATCGACTATGCCGGGGCGCCGTATGTACTGGGTGGATGCTAAGCACCATGTCATCGAGAGGGCCAATCTGGATGGG
AGTCACCGTAAGGCTGTCAATTAGCCAGGGCCTCCCGCATCCCTTCGECATCACAGTGTGTAAGACAGCCTGTAC
TGGACAGACTGGCACACCAAGAGCATCAATAGCGCTAACAAATTTACGGGGAAGAACCAGGAAATCATTGCGAAC
AAACTCCACTTCCCTATGGACATCCACACCTTGACCCCCAGCGCCAACCTGCAGGGAAAAACCGCTGTGGGGAC
AACAACGGAGGCTGCACGCACCTGTGTCTGCCAGTGGCCAGAATAACCTGTGCCTGCCCACTGGCTTCCGC
AAGATCAGCAGCCACGCCTGTGCCAGAGTCTTGACAAGTTCCTGCTTTTTGCCGAAGGATGGACATCCGTCGA
ATCAGCTTTGACACAGAGGACCTGTCTGATGATGTCATCCCACTGGCTGACGTGCGCAGTGTGTGGCCCTTGAC
TGGGACTCCCGGGATGACCACGTGTACTGGACAGATGTCAGCACTGATACCATCAGCAGGGCCAAGTGGGATGGA
ACAGGACAGGAGGTGGTAGTGGATACCAAGTTGGAGAGCCAGCTGGCCTGGCCATTGATTGGGTACCAACAAA
CTGTACTGGACAGATGCAGGTACAGACCGGATTGAAGTAGCCAACACAGATGGCAGCATGAGAACAGTACTCATC
TGGGAGAACCCTTGATCGTCCTCGGGACATCGTGGTGGAAACCATGGGCGGGTACATGTATTGGACTGACTGGGGT
GCGAGCCCCAAGATTGAACGAGCTGGCATGGATGCCCTCAGGCCGCCAAGTCATTATCTCTTAATCTGACCTGG
CCTAATGGGTAGCTATTGATTATGGGTCCCAGCGTCTATACTGGGCTGACGCCGGCATGAAGACAATTGAATTT
GCTGGACTGGATGGCAGTAAGAGGAAGGTGCTGATTGGAAGCCAGCTCCCCACCCATTTGGGCTGACCCCTCTAT
GGAGAGCGCATCTATTGGACTGACTGGCAGACCAAGAGCATACAGAGCGCTGACCGGCTGACAGGGCTGGACCGG
GAGACTCTGCAGGAGAACCTGGAAAACCTAATGGACATCCATGTCTTCCACCGCCGCCGGCCCCAGTGTCTACA
CCATGTGCTATGGAGAATGGCGGCTGTAGCCACCTGTGTCTTAGGTCCCCAAATCCAAGCGGATTACAGCTGTACC
TGCCCCACAGGCATCAACCTGCTGTCTGATGGCAAGACCTGCTCACCAGGCATGAACAGTTTCCCTCATCTTCGCC
AGGAGGATAGACATTGCGATGGTCTCCCTGGACATCCCTTATTTTGCTGATGTGGTGGTACCAATCAACATTACC
ATGAAGAACACCATTGCCGTTGGAGTAGACCCCCAGGAAGGAAAGGTGTACTGGTCTGACAGCACACTGCACAGG
ATCAGTCGTGCCAATCTGGATGGCTCACAGCATGAGGACATCATCACCACAGGGCTACAGACCACAGATGGGCTC
GCGGTTGATGCCATTGGCCGGAAGTATACTGGACAGACACGGGAACAAACCGGATTGAAGTGGGCAACCTGGAC
GGGTCCATGCGGAAAGTGTGGTGTGGCAGAACCTTGACAGTCCCCGGGCCATCGTACTGTACCATGAGATGGGG
TTTATGTACTGGACAGACTGGGGGGAGAATGCCAAGTTAGAGCGGTCCGGAATGGATGGCTCAGACCGCGCGGTG
CTCATCAACAACAACCTAGGATGGCCCAATGGACTGACTGTGGACAAGGCCAGCTCCCACTGCTATGGGCCGAT
GCCACACCGAGCGAATTGAGGCTGCTGACCTGAATGGTGCCAATCGGCATACATTGGTGTACCGGTGCAGCAC
CCATATGGCCTCACCTGCTCGACTCCTATATCTACTGGACTGACTGGCAGACTCGGAGCATCCACCGTGTGAC
AAGGGTACTGGCAGCAATGTCATCCTCGTGAGGTCCAACCTGCCAGGCCTCATGGACATGCAGGCTGTGGACCGG
GCACAGCCACTAGGTTTTAACAAGTGCGGCTCGAGAAATGGCGGCTGCTCCACCTCTGCTTGCCTCGGCCTTCT
GGCTTCTCCTGTGCCTGCCCCACTGGCATCCAGCTGAAGGGAGATGGGAAGACCTGTGATCCCTCTCCTGAGACC
TACCTGCTCTTCTCCAGCCGTGGCTCCATCCGGCGTATCTCACTGGACACCAGTGACCACACCGATGTGCATGTC
CCTGTTCTGAGCTCAACAATGTCTATCTCCCTGGACTATGACAGCGTGGATGGAAAGGTCTATTACACAGATGTG
TTCTTGGATGTTATCAGGCGAGCAGACCTGAACGGCAGCAACATGGAGACAGTGATCGGGCGAGGGCTGAAGACC
ACTGACGGGCTGGCAGTGGACTGGGTGGCCAGGAACCTGTACTGGACAGACACAGGTGCAATACCATTGAGGCG
TCCAGGCTGGATGGTTCTTCCGCAAGTACTGATCAACAATAGCCTGGATGAGCCCCGGGCCATTGCTGTTTTTC
CCCAGGAAGGGGTACCTCTTCTGGACAGACTGGGGCCACATTGCCAAGATCGAACGGGCAACTTGGATGGTTCT
GAGCGGAAGGTCTCATCAACACAGACCTGGGTGGCCCAATGGCCTTACCCTGGACTATGATACCCGCAGGATC

TACTGGGTGGATGCGCATCTGGACCGGATCGAGAGTGCTGACCTCAATGGGAAACTGCGGCAGGTCCTTGGTCGGC
CATGTGTCCCCACCCCTTTGCCCTCACACAGCAAGACAGGTGGATCTACTGGACAGACTGGCAGACCAAGTCAATC
CAGCGTGTTGACAAATACTCAGGCCGGAACAAGGAGACAGTGCTGGCAAATGTGGAAGGACTCATGGATATCATC
GTGGTTTCCCTCAGCGGCAGACAGGGACCAATGCCGTGTGGTGTGAACAATGGTGGCTGCACCCACCTCTGCTTT
GCCAGAGCCTCGGACTTCGTATGTGCCGTGTCTTGACGAACCTGATAGCCAGCCCTGCTCCTTGTGCCCTGGCCTG
GTACCACCAGCTCCTAGGGCTACTGGCATGAGTGAAAAGAGCCCAGTGCTACCCAACACACCACCTACCACCTTG
TATTCTTCAACCACCCGACCCGCACGTCTCTGGAGGAGGTGGAAGGAAGATGCTCTGAAAGGGATGCCAGGCTG
GGCCTCTGTGCACGTTCCAATGACGCTGTTCTGTCTGCTCCAGGGGAAGGACTTCATATCAGCTACGCCATTGGT
GGACTCCTCAGTATTCTGCTGATTTTGGTGGTGATTGCAGCTTTGATGCTGTACAGACACAAAAATCCAAGTTC
ACTGATCCTGGAATGGGGAACCTCACCTACAGCAACCCCTCCTACCGAACATCCACACAGGAAGTGAAGATTGAA
GCAATCCCCAAACCAGCCATGTACAACCAGCTGTGCTATAAGAAAAGAGGGAGGGCCTGACCATAACTACACCAAG
GAGAAGATCAAGATCGTAGAGGGAATCTGCCTCCTGTCTGGGGATGATGCTGAGTGGGATGACCTCAAGCAACTG
CGAAGCTCACGGGGGGGCTCCTCCGGGATCATGTATGCATGAAGACAGACACGGGTGTCCATCCAGGCCAGCTCT
GGCTCCCTGGATGACACAGAGATGGAGCAGCTGTTACAGGAAGAGCAGTCTGAGTGTAGCAGCGTCCATACTGCA
GCCACTCCAGAAAAGACGAGGCTCTCTGCCAGACACGGGCTGGAAAACATGAACGCAAGCTCTCCTCAGAGAGCCAG
GTCTAAATGCCCACATTCTCTTCCCTGCCTGCCTGTTCTTCTCTCTTTATGGACGCTCTAGTCCCTTGTGCTCGCTT
ACACCGCAGGCCCCGCTTCTGTGTGCTTGTCTCTCTCTCTCTCCACCCCATAACTGTTCTTAAGCCTTCACCGG
AGCTGTTTACCACGTGAGTCCATAACTACCTGTGCACAAAGAAATGATGGCACATCACGAGAATTTAGACCTGGAT
TTTACCATGAACCTCACATCTTGTACTCCATCCTGGGCCCCCTGAAACTGCTTATTCTGTGATTCTCTACCAGCGT
AGAGCTCCACCTCCCCCTTTCCCCAGTACCCTCAGTGCCCTGCTTCTCAGTGCTGATGCAGCTGATGACCCAGGACT
GCGCTCTGCCCCATCACAGCCAGCATGACTGCTTCTCTGAGAGAAGTTCGCCATCAGGGGCTGGGACATGGGGGT
GTGGGTAAAGACAGGGATGAAGGATAGAGGCTGAGAGAAGAAGGAAGAATCAGCCCAGCAGGTATGGGCATCTGG
GAAACCTCCAGCCTCAAGTGTGTTGGTAACATGAAAAAGCTCTGGGGGGTAGTTGGATCTGGGTGTCTGGTCCAT
TGCTGGCAGTGGACATTATTCTTGGCCCTAAGAGACACTGCCTTTTCAGCAGCAGATACTGGTGAGATGGGGGTGG
CTCAGGCTGTTTCTTCTCTCTCTAGAATGTCTGGAGCTGTTTCTACATTAGATAACTGGGTCCCTATCACAAAG
GCTACTGGCTAATAGGAATTCCCTCCTGGTGCCACCCTGGCCAGTACCTTTCTAAGTCTTTGCTCAAATTAAC
CAGGTTGTGAGCCAGTGGCTTGAGTGAATGTTAGGCCTTGGGGGCTGAGTCTCTGAAAAGTCTAAGAAGCTCTGC
CTAGACCAAATATGGTATACCTCCTGACCCCTCTCTCCCTCATGTCTGGGATTCTGGGGAAGAGACCTAGAAAC
AAGCTTTCAAAGAAAAACCAGAAGTTGTCATAAATGGTCAGAAAGAACGATCAGGTTGGAGACTTGGGAAACCCA
GGGCTTAAAGAGAAGTATCCATGAGGGTCAAACCTTCTGTTGAACTTCTATGTTCTTTCTCAAGTGCTCAGGGA
TCTAAGTTAGTGGACAGCAAGCCTGTGGCTACGGGGTGGTGATGTTCTCTTCCAGCTGTCCCTCAGCTAAGGG
GCTTAGTTTCCATGTGGGATGCCATCACTTGGTTTATGCTCATTACACAAAGGGGCACGTGTCTCAGCCTGGTAT
CAGGGAAATTGAGACTTATTTTTGCCCTAAACGCTCTCCCTAGCTGTTCTTCTGTTGGGTTTTTTTTTGTGTTTTT
TTGCCTAATTGCTTTTTCTGACCAAGCCTTGTGGCACCAGCAATCTCCAAGTCTGTGGTGGGAGGGCTGAAT
AAATAAAAATACAAAGAGGTGGGTAAGGAGTAGGAAGGTAGAGAGCACCCTGATGAGGCCCTCCTAGCCCATGG
CAGACCCAGACCTCTTCTCCCCAGGAATTAGAAGTGGCAGGAGAGAAACAACAGGGGCTGGGAATGGAGGGGAGA
ATTTCTAGGGGAAGTTTCTGAGTTGAAACTTCTCTGTGGTTACTGGTATTGAGAAATCAGCTACCAAAGTGAA
AAAGGACAAGATCAATTCTTTTCTAGTCAGTTCTAAGACTGCTAGAGAGAGATACCAGGCCCTTAGCCTTGCTCT
CAGTAGCGTCAGCCCCAGTTCTGAGCCTCCCCACATTACACTTAACAAGCAGTAAAGGAGTGAGCACTTTGGGTC
CTTAGACTCATGTCTGGGGAGGAAGAGCAAGTAGAAAAGTGGCATTCTTCTTGATTGGAAAGGGGGAAGGATCTTA
TTGCACTTGGGCTGTTTCAGAATGTAGAAAGGACATATTTGAGGAAGTATCTATTTGAGCACTGATTTACTCTGTA
AAAAGCAAAATCTCTCTGTCTTAACTAATGGAAGCGATTCTCCCATGCTCATGTGTAATGGTTTTAACGTTACT
CACTGGAGAGATTGGACTTTCTGGAGTTATTTAACCCTATGTTTCACTATTTTAGGACTTTATGATAATTTAATA
TAAATTTAGCTTTTTCTTAATC

1122/2777
FIGURE 988

LCNGVNDCGDNSDESPQONCRPRTGEENCNVNNGGCAQKCQMVRGAVQCTCHTGYRLTEDGHTCQDVNECAEEGY
CSQGCTNSEGAFQCWCETGYELRPDRRSCKALGPEPVLLFANRIDIRQVLPHRSEYTLNLENAIALDFHRRR
ELVFWSDVTLDRIILRANLNGSNVEEVVSTGLESPPGGLAVDWVHDKLYWTDSGTSRIEVANLDGAHRKVLLWQNL
KPRAIALHPMEGTIYWTDWGNTPRIEASSMDGSGRRIIADTHLFWPNGLTIDYAGRRMYWVDAKHHVIERANLDG
SHRKAVISQGLPHPFITVFEDSLYWTDWHTKSINSANKFTGKNQEIIRNKLHFPMDIHTLHPQRQFAGKNRCGD
NNGGCTHLCLPSGQNYTCACPTGFRKISSHACAQSLDKFLLFARRMDIRRIISFDTEDLSDDDVIPLADVRSVAVALD
WDSRDDHVYWTDVSTDTISRKWDGTGQEVVVDTSLESPAGLAIDWVTNKLYWTDAGTDRIEVANTDGSMTVLI
WENLDRPRDIVVEPMGGYMYWTDWGASPKIERAGMDASGRQVIISSNLTPNGLAIDYGSQRLYWADAGMKTIEF
AGLDGSKRKVLIGSQLPHPFGLTLYGERIYWTDWQTKSIQSADRLTGLDRETLOENLENLMDIHVFHRRRPPVST
PCAMENGGCASHLCLRSPNPSGFSCPTGINLLSDGKTCSPGMNSFLIFARRIDIRMVSLDIPYFADVVPINIT
MKNTIAVGVDPQEGKVYWSDSLHRISRANLDGSQHEDIITTGLQTTDGLAVDAIGRKVYWTDGTNRIEVGNLD
GSMRKVLVWQNLDSRAIVLYHEMGFMYWTDWGENAKLERSGMDGSDRAVLINNNLGWPNGLTVDKASSQLLWAD
AHTERIEAADLNGANRHTLVSPVQHPYGLTLLDSYIYWTDWQTRSIHRADKGTGSNVILVRSNLPGLMDMQAVDR
AQPLGFNKCGRNGGCSHLCLPRPSGFSCACPTGIQLKGDGKTCDFSPETYLLFSSRGSIRRIISLDTSDHTDVHV
PVPENNNVISLDYDSVDGKVYYTDVFLDVIRRADLNGSNMETVIGRGLKTTDGLAVDWVARNLYWTDGTGRNTIEA
SRLDGSCRKVLINNSLDEPRAIAVFPRKGYLFWTDWGHIAKIERANLDGSEKVLINTDLGWPNGLTLDYDTRRI
YWVDAHLDRIESADLNGKLRQVLVGHVSHPFALTQQDRWIYWTDWQTKSIQRVDKYSGRNKETVLANVEGLMDII
VVSPQRQTGTNACGVNNGGCTHLCFARASDFVCACPDEPDSQPCSLVPLVPPAPRATGMSEKSPVLPNTPTTTL
YSSTTRTRTSLEEVEGRCSERDARLGLCARSNDVPAAPGEGLHISYAIGGLLSILLILVVIAALMLYRHKKSKF
TDPGMGNLTYSNPSYRTSTQEVKIEAIPKPAMYNQLCYKKEGGPDHNYTKEKIKIVEGICLLSGDDAEWDDLKQL
RSSRGGLLRDHVCMKTDTVSIQASSGSLDDTEMEQLLQEEQSECSSVHTAATPERRGSLPDTGWKHERKLSSESQ
V

1123/2777
FIGURE 989

GGCACGAGGGTTCTCCTTCGCTGCCCCAGCTCAGAGGATGATGTGTTTCATCCCCACTGTGAGGGAAGTGCAGTG
TCCAGAGGCCAATATTGATACAGCCCTTTGTAAGGAAAGTCCGGGGCTCTGGGGAGCCAGCATCCTGAAGGCAGG
TGCTGGGGTCCCTGGGGAGCAGCCTGTGGACCTTAACCTGCCTTTGGAAGCTCCCCAATTTCAAAGGTCAGAGT
GCATATTCAGGGTGCTCAGGTTGAAAGTCAAGAGGTCACTATACACAGCATAGTGACACCAGAGTTTGTAGATCT
CTCAGTACCCAGGACTTTTTCCACTCAGATTGTGCGGGAATCAGAGATCCCCACGTCAGAGATTCAAACACCTTC
GTACGGATTTTCTTATTAAAAGTAAAATCCAGAGCCCCACACGCAGGCTAGAGTGACACAACAATGACTCA
ACACTCTAGGACTCAGGAGGGCACAGAAGAGGCTCCCATACAAGCCACCCAGGAGTAGACTCCATTTCTGGAGA
TCTCCAGCCTGACACTGGAGAACCATTGAGATGATCTCTTCCAGCGTCAATGTACTGGGACAGCAAACACTCAC
ATTTGAAGTTCCTTCTGGCCACCAGCTTGCAGACAGCTGTTTCAGATGAGGAGCCAGCAGAAAATTCTTGAGTTTCC
CCCTGATGATAGCCAAGAGGCAACCACACCACTGGCAGATGAAGGCAGGGCTCCAAAAGACAAAACCAGAAAGTAA
AAAATCTGGTCTGCTCTGGTTTTGGCTTCCAAACATTGGGTTTTCTCTTCTGTTGATGAGACAGGTGTTGATTC
CAAAAATGACGTCCAGAGATCTGCTCCCATTCAAACACAGCCTGAGGCACGACCAGAGGCAGAACTGCCTAAAAA
ACAGGAGAAGGCAGGCTGGTTCCGATTTCCCAAATTAGGGTTCTCCTCATCTCCTACCAAGAAAAGCAAAAGCAC
CGAAGATGGGGCAGAGCTGGAAGAACAAAACTTCAAGAAGAAACAATCACGTTTTTTGATGCCCGAGAAAGTTT
CTCCCTGAAGAGAAGGAAGAGGGTGAAGTATCGGGCCTGTGGGCACTGGGCTGGACTCCAGAGTGATGGTGAC
ATCCGCGGCAAGAACAGAGTTAATCCTGCCCAGCAGGACAGAAAAGCTGACGATGAAAGCAAAGGGTCAGGCCT
GGGACCAAATGAAGGCTGAGAGGTATGGCTCATCGGTACAAGAGAGATGCAAAAACTAAGTTGGAAAGTAAAGG
CTACACACACATATGGAGCACCCCATCCACAGCACATTACATCCACCTCACTTCACAGAACGGAGAACAGAGCA
GAAATGACCAGAACACCTTTGTCAACATCACACAGCCCTCCTAAATGGAACCAAAGCTTCCCAGCTCCCTCAA
GCTTTGGATGCAAGAAGGCACCCTGACTTCCACAAGACACCAGAATTCACACGGTACTCAGAGGCACCTGCTGGG
GAAGTTTGTGGTCTTTATTAGATAAATTTCCAGAGACCTGTCCATAATACCCAACAGAACATGACTGTTTCTTT
GAGGAAAAGGTTATAATGTCTGTGGTGTACAAGTCGTTTTTGGTATAACTTCTTCTCTGCTGCTGCTTCCCG
GCAACATAGTTTTCTATTTTCCAGGAGAGTGCAGGTATATTCCAGGAAACACTGTTTCTTCTACTCACTTAGCTTAC
TTCTTTGTTGAATGCCTCACTAATGGCAAGTTTCAAGATGTTTTGGGTGACAATGCACACATGCTGGGCAAAAGG
GTGATGGCCAGTGGCTGGCAGCTGGGCCAGCAGAAGCTAGGACATCTGTGAGTTGTCATTCTCATCTATCCATGT
CCACTGGCCTGCCAGCATCCGCCAGTGCCTTGCCAGTGTGCACGGTCCCACACTGTGGCCCTGAGTCCCCTAAT
GTACACGCTGCAGCCAGAAATGCAGATGGAGCTGGCTTGGCTGTTCCCTGGATGGGCAATAAAGAAAGTGCTGCAT
CCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

1124/2777
FIGURE 990A

AATTGCGGCCGCTCGACGCTGCGAGAAGACGACAGAAGGGGGTTGCATGTACTGTATGTGGAGCAGTGTACAGT
GAAGCGGAGGCAGAGCGGCTCCGCGAGCTTCTCTCCACTTTCCCATAGAGAAACCCTGACTGGCCGCTGAGGGCT
AGCTACACACACGCCCTCACGCCCCGGCGAGCCCGCGAGGTCACATATCATATGACAAAGGCTTTGCCGCAGTTCAT
CTTCTCCCTGTGTACTTTCCATTTGCCTTCCTGGAATCCTGCTGCATCACAGAAGCTGGAAGTTCTGATGTTCC
ACTGAAATCACAATGGAAAGTCTTGACTTGACTGGTCACAGTAATGAAAGGCAGTAATAGAAATAAGGATCATT
AGCAGAAGGAGAAGGGGTTGGAAAACGACCAAAACGAAAGTGTCTTCAGTGGCATCCATTGCTAGCAAAAGAACT
TCTTGATTTTTTCAGAAGAGGAAGAAGAGGAAGACGAAGAGGAGGATATTGATAAGGTTCAACTTCTTGGGGCCGA
TGGCCTAGAGCAAGATGTTGGTGAAACTGAAGATGATGAATCACCAGAGCAGCGAGCCCGGAGACCAATGAATGC
ATTTCTTTTATTTTGCAAACGCCATCGCTCTCTTGTACGTCAGGAACACCCCAGGCTTGATAACCGAGGTGCTAC
CAAGATACTAGCTGATTGGTGGGCTGTTCTTGATCCAAAGGAAAAGCAGAAATACACAGACATGGCCAAGGAGTA
TAAGGATGCATTTATGAAAGCAAATCCTGGCTACAAATGGTGTCTTACCACAAACAAGCCTGTGAAATCCCCAAC
ACCCACTGTCAATCCACGAAAGAAACTTTGGGCCTTCCCATCTGACTCTTCAAGAGACTTGCCAAGCCCCAAGAA
AGCAAAGACTGAAGAAATGCCTCAGCTTAACTTTGGAATGGCTGATCCTACTCAAATGGGAGGCCTGAGTATGCT
GCTGTTAGCTGGAGAACATGCTCTTGGCACACCAGAGGTATCCTCTGGCACATGCAGGCCTGATGTTTCAGAATC
TCCTGAATTACGTCAGAAGTCACCATTTGTTTCAGTTTGCCGAGATATCTTCAAGTACGTCCCACTCTGATGCTTC
TACAAAGCAGTGTCAAACATCTGCCTTGTTCAGTTTGAGAGATTTCTTCAAACACTTCGCAGTTGGGTGGTGC
TGAGCCTGTAAAACGCTGTGGAAGTCTGCACTCTTTCAACTGGCAGAGATGTGCCTGGCATCAGAAGGGATGAA
AATGGAAGAATCAAAGCTAATAAAAAGCAAAGAATCCGATGGTGGAGAATTAAGAATTAGAGAAGGGAAAGGA
AGAAAAAGAAATTAATAATGGAGAAAACAGATGAACTAGGTTACAGAAGGAAGCAGAATTTGAAAAATCGGCTAA
GGAAAATTTAAGAGATTCTAAGGAATTGAGAAATTTTGAGGCATTGCAAATAGATGACATAATGGCTATAAAAAAT
GGAAGATCCCAAAGAAATTAGAAAAGGAAGAGTTAGAAGAAGATCACAAATGTAGTCATTTTCTGATTTTTCTTA
TTCTGCCAGTAGCAAGATAATAATTAGTGATGTTCCAGTAGAAAAGGATCATATGTGCCATCCTCATGGAATTAT
GATCATTGAGGATCCCGCAGCATTAAACAAGCCAGAAAAGCTAAAAAAGAAAAAGAAAAGCAAAATGGATCG
ACATGGAATGATAAATCCACACCCCAAGAAGACTTGCAAAAAGAGGCAGTCTTCGGAATCTGACATTGAGAGCGT
CATATATAACCATGAAGCCGTGCAAAAAGGAGACTGGGGCATAGAGAACTTGAGATAACCCCTCGCAAGAAGGT
CCGCACATCCTCAAGTGGCAAGGGAAGCATTTTGGATGCCAAGCCACCAAGAAAAAGTGAATCAAGAGAGAA
GAAATGTCAAAGGAGAAATCCTCAGACACCACCAAGAGTCAAGACCTCCAGATTTTATTAGTATTTCTGCTAG
CAAGAACATTTCTGGTGAGACACCAGAGGGTATAAAAGCAGAACCATTGACCCCTATGGAAGATGCACTACCACC
CAGCCTATCAGGACAGGCCAAGCCTGAGGACAGTGACTGTACAGAAAAATAGAACTTGTGGTTCCAGGAAATC
CGAGAGGTCTTGCAAAGGTGCTCTTTATAAAACCCCTGGTGTCTGAGGGCATGCTCACCTCTCTGCGAGCTAATGT
TGACAGAGGAAAACGAAGCTCAGGAAAAGGAACTCCTCTGATCATGAAGGGTGTGGAATGAAGAAAGCTGGAC
ATTTAGTCAGAGTGGGACCAGTGGGAGCAAGAAGTTCAAGAAGACAAAGCCAAAAGAAGACTGTCTCCTTGGCTC
CGCAAAGCTGGATGAAGAATTTGAAAAAAATTCACAGCCTCCCTCAATATAGTCTGTTACATTTGACCGGAA
ATGTGTACCTGTCCCAAGAAAAAAGAAGAAGACTGGAATGTGTCTCAGAACCGACTAAAACCAGCAAAGGAAG
TGGGGATAAATGGTCAAACAAGCAACTCTTCTTGATGCCATTACCCCTACAGAAGCCATATTTTCAGAAGACAG
AAACACCATGGAGCCTGTTTATAAGGTTAAAAATATCCCATCCATTTTCAACACTCCAGAGCCAACAACAACGCA
AGAACCTTTGGTGGGCAGCCAAAAGAGAAAAGCAAGGAAAACCAAGATTACACACCTTGTGAGGACAGCAGATGG
CCGGGTATCACCAGCAGGAGGTACTTTGGATGACAAACCAAGGAACAACCTGCAGAGGAGTCTCCCTAAAGCAAC
TGAGACAGACTGCAATGACAAATGCTCACACAACACCGAGGTGCGGGAGACGCGGAGCAGTACTCCAGAAATGCC
TGCCGTGTCTGCGTTCTTTAGCCTCGCTGCGCTGGCTGAAGTGGCAGCCATGGAAAATGTGCACAGAGGTGAGAG
GTCAACTCCGCTCACCCATGATGGACAGCCAAAAGAAATGCCGCAGGCTCCTGTACTTATTTCTGCGCTGACCA
GTGAAGCGCCCTTTTATTGTAAAACATTGTGCTTTACCTACTACCCTAGCCTTGTCTTTACCGAGGGATGCTAGT
GAGTCCAAGTGGTGGAAAATATAGACTGCAAACAAGTGCTTGTGCCCCACACGGCCCAGATTCACTTGAAGCAG
AAGTTAGCATCCTGGGCCAGTTTGTCTCTCAGAACCCAGAATCTTTGAGGGTAAGTTATCTGTCTGATACTGA
GCAGAAACAGAATGATCCTGGAGCTTTGCTTTCTATTGAAGGCTTTTGACGGTAATAGGTGGTAACTTGGTAAAA
GGCTGCCTTTTACTGTAGCTCACCCAGCATCTCTTTTACCAACCAGAGAGTGTGAACTAGTTTCATATATTACCT
AGTTATTCTTTCAAACAAAACAAAAAACAACAACTGACGCACTGCACTAGTTATTATTAGATATTCTTAG
TCTTTTTTGTACATGGAGATTTAAGTTAAGATGGTTTATATAATAGGTTATACCTACATTTATATTGTAGAATA

1125/2777
FIGURE 990B

AATATTAAAAAGCCTGTTCCAGAGACTCCCAAGCAGCCTGGGCAGGCAGATGTACCATTGTTAGTGGTGTATGCT
CGGCCTCGTGGTCCATATATTCTGCACCTTTTATATTTGCCACCAGAATGGTAGTTTGCTGGCAAAAAAAAAAAAA
AGAGAGAGAGAAAAAATTACAACCTTTACAATCTGAATTTTTTTCTTAGCCTTGAGTGACCAAGAAGAATTTGCT
TGAGGCAAATTTGTGGCAAATATTTTCCCAGACAGGGGAAGAGTCCTGCAGATTACAGATTACTGGTGTTCATG
CCTTGAGGATTCTTTTATTTTACATAGGGGTCTAAGTGACCAATGGATTGTTTCATACAAACAAAAAAGACA
AAAATATTATTACAGAAGTGACCTTAGTATTACTTCACTATTCTAAACACATTGAAGACACTCACTTCATGTGGAC
TTGGAGCTACAGACCTTTTACATCCATCACAGATTGGCTGGACGGGTGCAATTGCTATGCACAGCCTGATTGGC
ACTGCAGGTTTTTAGAGCCATTTGAGTTTGTGTTGTTTAGGAGGTACTGAGTCAATGATGAGGGAGGTATGCCT
GACCAGAGTGGGACTCTCAGTCATAGATCCACCTGCAAGTCTCTGTTTCCTTTTTGTGTTTTGTGCTTTTGAAC
ATAAAACCAACCATAACATAAGCAGCGCCAAGTGGATTAACTGGCTTAGAACATTCAACATATTGACTTAACCACC
TGACATTCACAGTGTCTTGTTCCTAGCAACAGATGCAAGTGATAAATCAAAATTAGTCTGAGGCTACAGATTT
TACAGGGTATTTGTTCTATAGCACAAAGTATTTCCCCACTCTTGCGTCACAGCACAACTACCAATTTTAATTA
TTGGATTCCAGCAATAATTTTAAATGGTTTTTCAAAGTGGCGGAATTTTGACAGTGCTAGTTCGAGTTTGAAGCTT
TTGAATTAGATCTCTAAATGGTGACAGTTTACATGGTTTTATCTAGCTTTCTTATTTATACTTGACTGAATTGTA
ATGATTTTTTTTTCTAATTGTAATTTGACGTAATAGCCATACAAAAAATGACTCTATTCTACTAGGTTTAGCTTC
TCATGGTTGTAGATATTACTTCAGTTCGGTGCTGGAAAATATGTACAACATACTAACAGGATTGAAAAAAAT
AGAGGTTTTTCTTCTGGTTTTTTTTTCCAAAGCAGGTAAAGAGGGTAGCAAAGCATCGGAATGATGTGCTCAAAA
ATGCATATTCTTGGTGGGATGGAGGAAGAAGGCATTAGTAAAAGGTTAATCAAACGTTACAACCTTAACCCCAT
CATGCAGGAATAAATCAAGTGAGCAGTTCAGACTTTTGCATAATATTTTACTATGATGCTGTTTTATTAATAT
TTTCTAAATTTCAAACAAAAAGTGAATGTTTGAATTGCTGGGTCCCGATGTTGGTGGCTGTTGGAGTTTTGGA
CCACTCGCTAGCAGTGATTGAAGATTATAATTAGCTAAAATCCAAACAAAAACCAACAACAAAAATTGTATG
GTGCGGAACATGCACCTTGACAATGGTACTAATTGTTATTCTATAGAACACGTTAGAATAGATCTATTTTTGCC
AGAGCACCTCCTTCAGTCTCCGATTACATTTCACTAGAGTTTCTTACGAGATTGCTGTATATTCCTGGGACCN
NNNNNNNNNNNNNNNNNNNAGCAAAGCAAAGATTACTTTTTTCTATGTGATTAATATCTTACTTGATCTGCTTT
TCCTAAACCTCAGTGGCTTTTCCCTTAGGCAGGGTTGGGGTGGGAGGGCAACTTACTGGAGATGACTGTTTTCA
GATACTTTAAACAAACCTTTTTGTAGAAATGCTTAATTTTTAAGCGGTTAGGCACTGAGAGTAGCAGAAATCCT
GCAAAGCTTTATAGTTTCTTAGACTCACCTTGTCGATTCTCTGAGTAAAGTCTTGATTTCAATAATTGTGCTTCT
CATGCCCTGAATCTGCTGGAGAGGAGTGTGTTATTTTTCAGGTAACAACATTCGTTAGCACAAATATTTTCAGACC
AATATTAGTGCTCTCCACCCACCTTTTGTTATCATTTTCATTTCTCTCATTCTTTTTTATTTTGAAAAA
TCATATTGCTATAGTGGTACTTTAATCTGCCAGCAGATACCATCTACACTAACATTTGTCCACAGCATCCTCA
AGAGAAAAAGTTGTTGCACCTTATATATATCTCAAGCAAACCAAAATATGATGCTCTTCTGCTTTGTTTTATTCT
AAATTGTTGTATCATATCTTTCTGAAACCATTCTGAATTTAGTTGAAATTATCAATATTTATGCTTTTAACCTTA
ATTTCTGGATTCAAGCCTGTATATAAATCTTTTGAACAAAAATTGTCCTAGCCCTTCTCTGCGATGCTGGAAGTA
GAAGATTGCGTCTCAGATGGAGACGCAGTACTGTTCCAGTTTTCTTTAGCCTTTTATTTATTTAGTTATTCTGGG
TATTTCTATGTAATTTTGAAGTGTGTAGAGTATATTATAGTAACTGAAGCTGCAGCTGTAAGAAGCTGAGTGAA
AGAAAAAATACTGTAAGACATCCTTAAAGTTTTTATTTGTTTGGGTACTGTATATGAGATCAGGAAAAAGAAAA
TGTCCACAGCCACATTGGAATAACAGGTTCTTGTCCCAAATTAGGTTAGTTCCAGATTTTAGATCAAACTG
TTAATTCATTAAACCCCTTTTAAAGGTAAATCTACTGTTGTAATTCGATAGTCTTTTTCCACAAATATCA
GAAATATATTTATTTAATTCGTGTCAGATGAGCTTTCTACCGATGCCATGTCCCAAAGCCATGTTAAATAATTCC
CACGTTATCATTGTGATTCTACTTCTGCCACTAAAATTGCTGGAGAAACAAAAATAATGATGGAACACTATGAAC
AAAAAGGAGCATCTGAACTGGTCTGGTTATTTAGAAATCCAATGTGTTCAAATCCTTTTGTCTTTATTAAGTCA
GATGCTACTGTAAGTCAGATAAAATTTTGTGTTGCACTCTGCAGTCTTTGGCTCAATGTATGGAATGTTTGCACC
TATGTAAAGTCACAAGCTAATTACAAATTGCTACAGAACAGGAGTAAGCTGAAAACCTGAATGCCATGTTTGT
ATAAGGTGGGGAGGGGAGGGAAAAATACCAAAAACTCTGTTCCAAGTTTGGCATTGACATTAATGTGAAGCAGT
GGGACCATGCTGCCTGCTAAACTACTGTATGAATCGTAAATGTTCTGAAGACGAGCAGCTGGAGGCTGGAGGATG
GCATTCCATACAGCAAAGGAGAAGCACCCACCACTTCATCTGGGAAAAGGAAGGAAATTGCAGGAGGCCTGGAGC
CATCATTTGTAAAGGGGATGTTGCGGGGTGTGATGCTGTTGAGGAGATTACCTTCAATTGCACTGCTCCACAGA
GCCCTCATATAAGGCCAATCCTAATGGGCTACCTCGGCTTTAAAGTTAATTTAGTAAGTCTGTTTCAAAAGT

1126/2777
FIGURE 990C

TTGTCITTTTTTGGCTTCTACCTTCAGTGCCACTATTTTCCACTGCAGTGTTTTGACTTCACAACTGCCTCCTCC
AGAGAGAACAATGTATTGCTGAAAATGGGCAGTAGAAGCAAATGCTGTTGTTACATTTGACCTATAAAGTATTCA
GAGTGACTGCTAGGTAGAAATTAAACCTTAGCTTTCCCAAATAGCTCCTTATTTTGCACCTTATAAAAAGTATAC
TAATTGTTAATTAGATGTTGCTTTTGTATACAAGCATTCCCAAAGAACTAGATTTGGATTTTGTGTTGAGTTT
TTGGATTTTTTAAAAATTATCTTATTTAGATTGACTAACAGCATACTTACAATTTTAAAAGAAGCTGTTGTTGAGT
TCATCTTACCAGATGTGTCTGGCGAAGTATTCAGGGTTTGATGGACTGCTTTACTTTTCGTTTGGAAAGTGATAGCT
AAGTTTATTATACTCTATATTAACAACCTTTGTTCATTTCACTGAGGACCTTATCTTCCTTATATTTCAGAACAA
AGAAGCAACAAGCGTGAATAAAAAAGACAAATGTATTTGACTCCCTCATAATCCCCATCTGTATGTGCTACCCCTC
CTTCAATATATAAATGTGCATCTTTTTTTTTTAAAAAANAAGGTTCTCTTCTGGCCAAATTTGAT
CTATGGTGGTATGATTACATACTGTTAAATTGAGAGAGGAAACCTTGTGGTTAAAAATTATATGGCTGCTGTTTTTC
TTTTTGCAGTCAGTGGTCAAAACTGATCATGTGCTTAAATCGATTTTTATGCACAGAAGTATTATTGTGAACAT
TACTGCTCCCTCCAAAGATTTCTGATAACTTGGGCCAGAGGTGGTTACTGAGTAACAAGGATCTAATTCAATGC
CTCAAAACTCTTCCACCCACAATGCAAACTTACCTCACAAGCTCTAACCTAAATCACAGAGACATGCATGTTTTC
ATGCATTAAACACTGATTTTCGCTCTGTGGCCACCAGAGGGTGGGCTCATGTCCCTGACTCCTCACATGAGTGC
CTCAGCTCTAAGAGCCGTGGAACGGGGGGTAGGGAAGGTTTTCGATCTGGAGCTCAGCAACTGGCTCAGCAACGT
TTTCTCCATTTTATTAGCACTAAACAAGTCTCTTGCTCTCAGGAATTTGTCAGAAAAAGAATAAAATCACCTGA
GACTCCACATACCAGATTATAAACTCTTCTCGTAGGTTTGAATTGCTTACTCACATGTCATAAATTAACCACAGC
TTCATTTGACCACCAGGTCTAAAGTCTGTTGACAGTTTCAGCATGACTGAATCGCTCATTTTTTTTTTTTGTCTT
CAGAAATTGGCTTGGTTCTCTTTAGAGTTGGTGTAAACATGCCATGTAATAAATGATTTCCACTTAATGGTACAA
CAGAATTATTGCTTTCTTAGATGTATGTGTAGTAAAGTCAATATACACATTTATATAATTTCTTTCTTCAAAAT
CTTATACCTAATTTGATATTTCTAAAAATTGCACATGTAAGTCATGTGATAACATGCTAAAGTACTTTAACTGT
GATCTTAAACTGAATAAAAAATTTAATAAACTTTGAAATATTTTAAAGATATTATTCAAATATATTTCTTTA
TGTTCACTACTGGCCGTAGAGTATGTGCCTTTAATGTACCATTTTCACTAAAAACAGTAGGAAAAATACTAAT
AAAAGTAAGATATTTCAACTATTTTAGAACATCGAATGATGTGTCNCCCTAAACTGTGTTTGC

1127/2777
FIGURE 991

MKGSNRNKDHS AEGEGVGKRPKRKCLQWHPLLAKKLLDFSEEEEEDEEEDIDKVQLLGADGLEQDVGETEDDES
PEQRARRPMNAFLLFCKRHRSLVRQEHPRLDNRGATKILADWWAVLDPKEKQKYTDMAKEYKDAFMKANPGYKWC
PTTNKPVKSPTPTVNP RKKLWAFPSDSSRDLPSPKKAKTEEMPQLNFGMADPTQMGGLSMLLLAGEHALGTPEVS
SGTCRPDVSESPELRQKSPLFQFAEISSSTSHSDASTKQCQTSALFQFAEISSNTSQLGGAEPVKRCGKSALFQL
AEMCLASEGMKMEESKLIKAKESDGGRIKELEKGKEEKEIKMEKTDETRLQKEAEFEKSAKENLRDSKELRNFEA
LQIDDIMAIKMEDPKEIRKEELEEDHKCSHFDPFSYSASSKIIISDVPSRKDHMCHPHGIMIIEDPAALNKPEKL
KKKKKKSKMDRHGNDKSTPKKTCKKRQSSSEDIESVIYITIEAVAKGDWGIEKLGDTPRKKVRTSSSGKGSILDAK
PPKKKVK SREKKMSKEKSSDTTKESRPPDFISISASKNISGETPEGIKAEP LTPMEDALPPSLSGQAKPEDSDCH
RKIETCGSRK SERSCKGALYKTLVSEGMLTSLRANVDRGKRSSGKGNSSDHEGCWNEESWTFSQSGTSGSKKFKK
TKPKEDCLLGS AKLDEEFKKFNSLPQYSPVTFDRKCVPVPRKKKKTGNVSSEPTKTSKSGSDKWSNKQLFLDAI
HPTEAIFSED RNTMEPVHKVKNIPSIFNTPEPTTTQEPLVGSQKRKARKTKITHLVRTADGRVSPAGGTLD DKPK
EQLQRSLPKATETDCNDKCSHNTVEGETRSSTPEMPAVSAFFSLAALAEVAAMENVHRGQRSTPLTHDGQPKEMP
QAPVLISCADQ

1128/2777
FIGURE 992A

GTGGGAGGATTTTTTAACACTTTGCAGTGTAGCTGTGAAGCAGTGCACCCTGAGATGGGCCTGGGCTGCAAAGCGA
CTGTTCTGCCTACTGTGACAACTTCAACTTACACAGGTTCCCTCTCTAACTTCCCACCTGGGTTGCAAGCTGA
ACTCATTACTGGTTTTTCATAACAACACAATAGTAAGAACAAGCAAACACAACAAATTCTCCTGGAGGCAGACTTG
GCTTAAAAAGGCAGACTTGGCTTGGTGATAGTTTTTCTTGAAAGTTCCAGATCCACAGTGGAGAGTGAGCCTGTC
TCATATTTGGCAAAAATATTTGTTGAAATGTCCACATAGGGGATGTTGGATGTTTAACACTTTTGAGAGTTTAAAC
ACATGAATATTCTTTCTCCTAGAAAACACATTAGACCTGTTGGAGGGAGTCTCCCGTATTCTTTTTCTGCCACTT
TTCGTCCCCATTTCAATTCATTAATGATAGGATATGATTTACCTGTGACTTACTACTTCAAATGGATGGCAGTGC
ACTTGGATTTTTTTTTTAATATCCAGAAGATTGAACAGAGGGTTGCTATTGTTGAATGTATTTGGACTGATAGATT
AAAATCAAAGTTCAATTTTTAAGGAACAAAAAGTAAATCCTGTTTTTCAATTTTACCTCCCCTTTTAAACTGAGA
ACCAGAGCAGAAGGGAAATATAGAATTTTAAGCAATTAATCTTCTGTGGATGAATTAACCCATTAGATGCTGA
TGGGATTTTTTTAAGGAATGGTACCTTAACATAATTTGATTTTCGTTTTCCCCTGAGGGCTAGAGGCTGAATGGA
GGCTGGTTTTATTTTGCCTTTCCCTCACC GCCCAGTCCCATTTAGTGTATTTCATTACTAGAAGGAAAAATCTTTCA
GAATTGGTGACACATGGTAGGCTGTCTTAAGGAGTCCCCTGGCCCCCTTCCCCTAGGCCATGGCCTAATAAAATA
AACTGTCAATTGTTCTCACAGCATATCATTTAATAATGAATACTTTAGAACAATGCTTATGGGCTGGAGAATTGT
ATTTGATTAGCCCATTCAGTTTGATAGCCCAAATGCTGAACAGCACAGCGGGATCCTAGCAGTGAAGTTCAAAA
GTAAGTCCAATCATTTCTGTGATACTCGCCCTGGTAGCAAACAGATCATCTCAGCCAAGCTCTTCATGTATCTTT
GACCTATTAGGTGAACAAATGAACCTCACAGGACACACAGTATTTTTTAAAGGCAGACTCGCTCTCTTTTTTGCC
AGTGAGCAGTTCTAGCTAACCAAGTTACACACTGTGGGTATTCTGCCTGCCTCTTGAATACAAAGGCCTAGTTC
AAGTGTTCGTTTTTTTTTATTTCAAATCAATTTTTTCTTCTTTCTTTTTTGAGATAAACTATTAAAGTACTACTA
TATATATAAAATCTCAAATCAACTTTTCGGCCTCCTCCTGTGTACCAGGAAGTATATTCTGACGAAGGGCCCCA
CTTTTGACAGGTCTTGACGCCCCCTCCCTTACCAGAAGTGCAGAGCTTCAGGATGGCGAAGGTCACCCAAGGGCA
TGAGTAGGGAGTGGTGTCTCCAACCATCAGTTCCGTGGCACTGTTTACGCTTTTGTGTGCTGCCCTGCCACCCACC
ACTCACAGTGCCTCTGAAGCGTGTACCCCTGGAGTGACGTGAGCATTGAGGCTTGTCTAAGGAAAAAATAAA
AGGCAGTGAAGGAGACTGTACATAAAGACATGGCAAAAATCTTAATTATAGCAATATAGTTATCGGGTAATGTTT
GGGTGGGCAGCTCCATTAAAAATATGTGAATGAATCTGTGAAGCTGCAAGTAGCGAGAAGAGCGAAAGGTCTTC
TTAATGAACCGCTACCTTGTAGACAGTAATTTGTACACTGTATAGTTTTGTTAAGAATTTTTTTTTAAATTA
TTCCCATGTTTGTAAAGCTAACTTTTTAACAAATTATAATGGAACATATGTTGTTTCCATTTTTAAAGTAAACAA
GAATATTCTTGTGTTAGAGACTGGACTTGAGTTAAACTCTCCAGTCTCTTAAGTTATGTATTAAGGAAAAATC
TGTCCATGTTAGGAGTTATTTACAGATTCTGTGCTTGAAAAGCATAGGATACTAATCCTTTAAAAAAGTGTA
ATGGAGAAAAGTTATATTTATGAAGGTTATTTTGTGTATTTAGTATTGGAAGGTTGGTTTCCAGAGCATTTT
AGAATGTGCAAGCACCCTGTCTTTTATTAGTATATACGGCCTTTAGCAAAAGTTTTTGTGATTGTTACGTGAT
GGTATTTAAGGTTAAGTTTCACAGAGCATTACAGGATAGGCAGAAAACATAAACAGTGCTATGTCTCACATAACGT
GTCCTCAGGGAGCAGAATCTTGGATTTGTGACTTGTAGCTTCATAAGGACTCAACGAAAGAGATTGCACAGGGAC
ATCTTCAGCGGTGTGACAGCAGGACATGTTCTTTACCTAGATTCAAATTCTATGTACTGTGTGAAATGATGAAGG
CTGCAGAAAGTTATCCCATATTACAGTGTACAGTATTCATTTTTAATGAAACAACCTCTACAATATTGCTGGCAGAT
AGGCCCCAAGCATGACATTCAATATAGTTTACATGTTCCGTGTCAAGGTCTTTTGTGTTAACAATTAACAGCTGCATG
CTTTCTGGACTTTAAGAAAATGGGTTTCTATAGAAAACCTTTTTTTTTTTTTTTTTTAAATGTGCAGGCTATTTC
AAGTTCAATAGTAAAGCTCAAAAATGAATGTTCTACTCCATGCTGAAGGAGCTGAAAGCTGCCTTCTTCATATT
TTGCACTTTCTGGTAGTTCCCTGTTTTTTCTAATTCCTTAAATTTGTGTGGGTGGAGTGGAGCCCTGCAGTTGG
GGGGTAACATGGACCACTGATTTTGCCCTTTGACCCTGCACAATGACCTTTGCATCAGCCAAACTCATTGCCATG
ACAACCTCTTTGTACTGTGTCCGTGCCACAGATCTGTTGGTTCACATTGTTAATAGTAAAGGGGACAAGTTGGAGAC
GGTCAATTTTTTACATTTTTTGTGCAATTTTTTCTTCAATGGTTGTAAGTAGTTTTTTTTTTTTTTAATAATAAA
AGGGTTCACTAGTTAATACTCTAGAAATATCTGTGTGTTGCAATTCAAATGTATGTTGAGATTGTGAAAAGCGCT
TCAGTGCCACTAGCTTACCGGTACACTAGACTAAGCCCTTGATGACTTATTGCATGATACAGTACCAGGAACAAC
AGGTGGCCATAAATACATGAAAAGCAGTGAAGCTAGTGACACTAAAGCCAGTCTTGATTACTGTATTTTTGACA
GAATGGTTTTTGAAGACTGTGCTACAGGGACTGATGTGGCAATATATCTCTTTATGCAGAAGGAAGTCTTTTTTT
TTCTTTTTTTTTTTTTTAAAGAGTATGGCTTTTTATGCATCCTTCATCGAGGGCATTGAAGTTGCATGGACTGAT
AAAAGTTGATGCAAAACAAGAAAGAAACAAACAAAAAACCAGCAAAATGTTTACCAAAAACTCAAACAA

1129/2777
FIGURE 992B

ATGAGCAGTGCCTGTTCAATTCACAGTCTCTGTTGAGTTCAGTTGTAAATATGTTTCAAATGACATTTTCTTGG
GAAAAAAAAATCTCTACAACATTGTAGAATGTGAGGGGTAACATCCAGGCATAGGTTTCTCAAAGCTGCAGT
AGATTATGTCCTTCATCAAGCTGTTAATTTGTGCTTATATCATATAGAACTTTTAGCATCCTGGGAAGAGCTGCCC
CCACCTCAATGATATTTCTCTGAGAACAACTTTTGTAGGACTGTGTGTTTCTTTAGATACATTTAGTACAACGT
AGGTGACGAGTAGTCAGTTATTGCTTGCTAGCTACACACCAGGGTTGATCCATTTTAAACCTTTGGCATTTTGT
CCTCATGGGCCATAAATACAGAACCTTGTATTTTAATTAAATTTTTTACAAAAGGAGGCACATGCACAATCTCC
ATGTAACAAACCTTTAGCAGTAGGATGTATTATACGACAGTTACTTAATTTCTAGAGTTCAGGCCTCTGGGATCA
ACCCAGACTGGGCCAGAATGTTAGTGAAGTTTTATTGTGCCCGGTTGGAGGATAACGTTCTTTGGGTACTTTT
TGTGGGTTGCAAATGAACTCAATTGCCACAAGTTTTAACTGGTGTAAATCAAGCTTGACTTAATGTGATTGTTA
CTGTTATATCCAGCCTATACTGCTAGCAGCTGCTCATACTGCAGTCAATTACTGGAAGCGGATATATTCCTATG
CAAAAAGTGTTTAAACAATAAAATGAGCTATGCTACAGAAA

1130/2777
FIGURE 993

GRIFNTLQCSCEAVHPMGLGCKATVLPVTNFNLRFPSTSHLGCKLNSLLVFITTQ

1131/2777
FIGURE 994

AGAAGAAGCTGGCCAAGGATATGGGAGCAACCACCATGGACCAGAAGTCTCTCTGGGCAGGTGTAGTGGTCTTGC
TGCTTCTCCAGGGAGGATCTGCCTACAAACTGGTTTGCTACTTTACCAACTGGTCCCAGGACCGGCAGGAACCAG
GAAAATTCACCCCTGAGAATATTGACCCCTTCCTATGCTCTCATCTCATCTATTCAATTCGCCAGCATCGAAAACA
ACAAGGTTATCATCAAGGACAAGAGTGAAGTGATGCTCTACCAGACCATCAACAGTCTCAAAACCAAGAATCCCA
AACTGAAAATTCCTTTGTCCATTGGAGGGTACCTGTTTGTTGCCAAAGGGTTCCACCCTATGGTGGATTCTTCTA
CATCACGCTTGGAATTCATTAACCTCCATAATCCTGTTTCTGAGGAACCATAACTTTGATGGACTGGATGTAAGCT
GGATCTACCCAGATCAGAAAGAAAACACTCATTTCACTGTGCTGATTGATGAGTTAGCAGAAGCCTTTCAGAAGG
ACTTCACAAAATCCACCAAGGAAAGGCTTCTCTTGACTGCGGGCGTATCTGCAGGGAGGCAAATGATTGATAACA
GCTATCAAGTTGAGAACTGGCAAAAGATCTGGATTTTCATCAACCTCCTGTCCTTTGACTTCCATGGGTCTTGGG
AAAAGCCCTTATCACTGGCCACAACAGCCCTCTGAGCAAGGGGTGGCAGGACAGAGGGCCAAGCTCCTACTACA
ATGTGGAATATGCTGTGGGGTACTGGATACATAAGGGAATGCCATCAGAGAAGGTGGTTCATGGGCATCCCCACAT
ATGGGCCTCCTTTCACACTGGCCTCTGCAGAAACCACCGTGGGGGCCCTGCCTCTGGCCCTGGAGCTGCTGGAC
CCATCACAGAGTCTTCAGGCTTCCTGGCCTATTATGAGATCTGCCAGTTCTTGAAAGGAGCCAAGATCACGCGCC
TCCAGGATCAGCAGGTTCCCTACGCAGTCAAGGGGAACCAGTGGGTGGGCTATGATGATGTGAAGAGTATGGAGA
CCAAGGTTTCAGTTCTTAAAGAATTTAAACCTGGGAGGAGCCATGATCTGGTCTATTGACATGGATGACTTCACTG
GCAATCCTGCAACCAGGGCCCTTACCCTCTTGTCCTCAAGCAGTCAAGAGAAGCCTTGGCTCCTTGTGAAGGATTA
ACTTACAGAGAAGCAGGCAAGATGACCTTGCTGCCTGGGGCCTGCTCTCTCCAGGAATTCTCATGTGGGATTCC
CCTTGCCAGGCTGGCCTTTGGATCTCTCTTCCAAGCCTTTCCTGACTTCTCTTAGATCATAGATTGGACCTGGT
TTTGTTTTCTGCTGAGCTGTTGACTTGTGCTGCTGAAGTACAATAAAAAAATTCATTTTGCTCCAGTA

1132/2777
FIGURE 995

MDQKSLWAGVVVLLLLQGGSAYKLVCYFTNWSQDRQEPGKFTPENIDPFLCSHLIYSFASIENNKVIIKDKSEVM
LYQTINSLKTKNPKLKILLSIGGYLFGSKGFHPMVDSSSTRLEFINSIILFLRNHNFDGLDVSWIYPDQKENTHF
TVLIHELAEAFQKDFTKSTKERLLLLTAGVSAGRQMIDNSYQVEKLAKDLDFINLLSFDFHGSWEKPLITGHNSPL
SKGWQDRGPSSYYNVEYAVGYWIHKGMPSEKVVMGIPTYGHSFTLASAETTVGAPASGPGAAGPITESSGFLAYY
EICQFLKGAKITRLQDQQVPYAVKGNQWVGYYDDVKSMETKVQFLKNLNLGGAMIWSIDMDDFTGKSCNQGPYPLV
QAVKRSLGSL

1133/2777
FIGURE 996

GGCACGAGGCCGCGATGCCGCTGCTCGTCGAGGGGCGGCGAGTGCGGCTGCCGCAGTCAGCCGGGGACCTCGTCC
GAGCCACCCGCCTTTGGAGGAAAGAGCCAGACTTCTCAGAGGTCAGTCTGTTCAACAAGTGGGACCCAGGGCC
TTCTGTATGTTTCAGCAAAGAGAGCTTGCAGTGACCTCCCCAAAGGATGGCTCCATCTCCATTCTGGGTTCTGATG
ATGCCACTACTTGTTCACATTGTGGTCCTGAGGCACACAGGTAATGGGGCCACCTGCTTGACACATTGTGACGGAA
CCGACACCAAAGCTGAGGTCCCTTGATCATGAATCCATAAAATCCTTTTCTGACCACGCTCAATGTGGAAGGC
TGGAAGTACACCTTGTTGGAGGCTTCAGTGACGACAGGCAGTTGTACAAAACTCACTCATCAACTTCTTAGTG
AAATTGACAGGCAAGAAGATGACATTCACCTAGTGACATTATGTGTGACAGAATTAAATGACCGGGAAGAAAACG
AAAACCACTTTCCAGTAATATATGGCATTGCTGTCAACATTAAGACTGCAGAGATTTACAGAGCATCCTTTCAAG
ATCGGGGTCCGGAGGAGCAGCTTCGTGCTGCGCGAAGTTTAGCAGGAGGACCAATGATTAGCATTTATGATGCAG
AGACAGAACAACCTTCGTATAGGACCGTACTCCTGGACACCATTTCACATGTGGATTTCTGGTTGCACCAAGATG
ACAAGCAAATACTAGAGAATCTTTCCACTTCGCCTCTGGCTGAGCCACCCCACTTTGTTGAACATATTAGATCTA
CCTTGATGTTTTTAAAAAACACCCATCTCCAGCTCACACACTGTTTTCTGGAAATAAAGCCCTACTCTACAAAA
AAAATGAAGATGGCTTGTGGGAAAAGATCTCTTCTCCAGGAAGTTAAAAAACATGAATTACCAAAGAAAGCACCT
TCTTGGCCTGACAGACCATTGGTGGGGCTGGCACGAATCCAGATCTGGATCCTACATCTGTTGGGTCTTAGGCCT
CCTTCCCTCCTCAGTGTCTTTCAAATGACTTTCATCAAATGACTTTCAAATAAAACCTTATTTTGGCAAAAAAA
AAAAAAAAAAAAAAAAAAAAA

1134/2777
FIGURE 997

MPLLVEGRRVRLPQSAGDLVRAHPPLEERARLLRGQSVQVGPQGGLLYVQQRELAVTSPKDGSIISILGSDDATTC
HIVVLRHTGNGATCLTHCDGTDTKAEVPLIMNSIKSFSDHAQCGRLEVHLVGGFSDDRQLSQKLTHQLLSEFDRQ
EDDIHLVTLCVTELNDREENENHFPVIYGIAVNIKTAEIYRASFQDRGPPEQLRAARTLAGGPMISIIYDAETEQL
RIGPYSWTFFPHVDFWLHQDDKQILENLSTSPLAEPHFVEHIRSTLMFLKKHPSAHTLFSGNKALLYKKNEDG
LWEKISSPGS

1135/2777
FIGURE 998

GGCAGAGGGTCACTCCAGTGGCAGCTCCAGAAACGGAGGCTGTTGCTTTTATCCCTAAACTGCATCCACAGAGA
AGCCCCAAGAAGGAGGTTGGGGCCAGCTCATAAAAGCCTGAATGCCAAGCCAAGGAGTGGATGCCTCCAGTCAT
ATTTAGAACAAAGTCAAGTATAAATTTACAGAGAAAAAATTCTAAGACAGTTGGATGTTGTCCTGTTGGTGAGGA
AGGGAAAGGTTTTTCTTGTAGGGAAGTGAACAGCCCACAAGTGCACGCTTGTGAGCTGTCATGGAAACCTGAT
CCCCAACAGCTTTTGAGGTTGTTTGTGTTTGTGTTTGTGTTTACCTGTCTTGGGCTTTGTTGCTTTTGGCAAAGGT
ACTTCAAACAAGGGAGGGCCTGGACTGAGGGGGACCAGGTCTTCTTGCTGACCTCGTCTACAAAGGCAAAGGAAG
GCAAAGGAAGCTGTCTCGGGTGTGTTCTGAACAACGTGACTCATGAGGGGCTTTGGCTACCTCTTGCGTTCCCCCT
AGAGATGTCCAGGCCCTTACATTTAATCGGCTTTCTCTGCGGTGGGGTAGAGAATGGAGCTCCCGCCTTGCGGGCA
GTGCTAAAGGTGGAGCTGGGGGATTTTCTGGAATGATTTGAGGGCTCTTGAAAGCCCATGTGTTCCAAAGCGT
CTTTAACTCTGGGATAGCATTGGAAGCCGCTGTCATGACAGGACATGGCACTGGATGGCTGGCAGAGAGCCCTGG
CTGGGAGTTAGGGAGCCCTGGGTTGGAATCCAGCCCCACCTCTTTTATGCCACAGGTTTGGTCAAGTTCTCTCCC
GCTCAGGGTAGGGCTGTGAACTCCCTCTTACAGCTAAGAACATGCAGCTTAGTGAGGACAAGACCCCTTCTAGAGC
TTTACCCCTAATCCCCCCCCCAGGAGCCCCGAGGCCGGCATTATTCTCCCCATTACAGGTGATGAGCCTCAAATT
CAGAGAGCTTAAGCAACCTGCTCAGGGTCACGTCTCCAACAGGCAGTAGAGTCAAGGTATAAACCAGGTCTGTTT
TTGTACCAGAGTCCCAGACTAACTGTTGGTAGGAATCTTGTAACCAGTCATGTTTTCTTCCTTGTTTTGGCCGCT
GGGAAGCTCAAAGTCAAATTCGAGACCCTTTTTTTTTCCAATTGTGCTGAGTCTCCTACTAGACTCGCTTCATTCT
AGCTTTCTGCTTTTACCTTTACCCCTAATCTTTTTATTTTTATTCTATTGTACTTTATTTTTGTAAGTTGCTGAGA
TATCTGTTTTGCAACAAGATGGGCTATATCTAAATAAAGACATGATCAAAGGTTTGATTTAAAAAAAAAAAAAA
AAAA

1136/2777
FIGURE 999

TAAAGCTGGAAAGATCTAAATAACCCAACAGGAAATGCGGATGAAAGTGCAAGAGTTGGTTTGTGGTCATCTGCA
GTCCATGTCCAAGACTGCTGGACCTTCAAATTCTGCAACTTCAACCATTACTTGGTGTAAGAAGCTTAATTTCA
GTATAAACTGACTCTGGGCAGCATTGGTGATGCTGTATCCTGAGTTGTAGCCTCTGTAATTGTGAATATTAAGT
AGATAGTGAAACATGGTGTCCGGTTTTCTATTGCATTTTTTCAAGTGGAAGTTAACTAAATGGTTGACACACA
AAAATTGGTGGAGAAATTGTGCATATGCCAATTTTTTGTAAACCTTTTGTGTTTGAAGTATACTGCTTTGAGAT
CTCATTTGAGAAGAACGGCATGAACAGTCTTCAGCCACAGTTGTGATGGTTGTTAAATGCTCACAATTGTGCATT
CTTAGGGTTTTTCCATCCCTGGGGTTTGCAAGTTGTTCACTTAAACATTCTTAAATGGTTGGCTTCTTGTCTG
CAAGCCAGCTGATATGGTAGCAACCAAGATTCCAGTGTGTTGAGCATATGAAAGACTCTGCCTGCTTAATTGTGC
TAGAAATAACAGCATCTAAAGTGAAGACTTAAGAAAACTTAGTGACTACTAGATTATCCTTAGGACTCTGCATT
AACTCTATAATGTTCTTGGTATTAAAAAAAAGCATATTTGTACAGAAATTTAGTTAACATCTTACAAGTGAAC
ATGTATGTATGTTGCTTAGATAAATGTAATCACTGTAAACATCTATATGATCTGGGATTTTGTGTTTTATTTGAA
ATGGGAGCTTTTTTGTGTTTACAAGTTTCAATTAATACTAAAGTGTGTTCTGTAAGGAAATGAGATTTTTTTTAAAC
AACAAAAATGCCTTGCTGACTCACTATTAAATAAAAACTCCCAATTTTTTGTAGACTACTTCAAGCCATTT
GTTACATGGTATTCCTTTGCAAGTCAATTTAGGTTTCGTGTTATAACTTTTCTCTTTTTTAAAGAAAAATGAAA
AAAGTAATCTTTTTGTCTGAAGGGGAAAGGCATTCTTTTCTTTTTTCTTTGTTTTTTTTTTTTTATGACTTG
CAGGCACAATATCTAGTACTGCAACTGCCAGAAGTTGGTATTGTAGCTGCTGCCCGCTGACTAGCAGCTGGACTG
ATTTTGAATAAAAAATGAAAGCATTAAAGGGTTTCCCTACAAAACATTTTCTTTTTTATTTGAAAAGTACTTTA
GCAATAATTAATTCATGATTATCATTCTGCCATTAAGGGATATTAGTACCCGTAATACTGAAGAAATTTTAT
TAAGTCTGAAGTCTGCGGGTAGGCAGCTTCTTTGTTTCTTTTCTATCCACCTTGTCGGTTGAGGTATTTGTTTC
TTGACTAATAAACCTTTGATACTTTTAGCCAGAAATCAGTCTCATAAAGCTATTTTGTAGTATAGTTTGTGTAA
AATAAAAAATGTTTAGCTTTGGTAATAACTTCCAAGCTGAAGTCCCTCTAGCAAGATATTTTCAAGTGCCTTTAT
TACTATGCACTTAGACTATGCACTTTTTCTGAAATATTTTTGTAACACTTTTTTGTATTTTGCCATTGAAAAG
GTTGTGGTGTAGTTGGTCTGTAATTAAGTTGCAGATTTAAAGTCTGTGTTAGCTTTGTAAATCAAAATATAGGTG
TTTTTTGTCTGTTATATCGTCACTTCATCTGCAGCTGGAGCTGGAATCCCATGATCTTCTAGCTACCATTCTAT
TTTCTTCACTGTTTCAAAAAGAAGAGTGTGAAATTCAGTGAATGCTGTTACTAATCCTGTTACGAGATGAATCTC
ATTTACCAAAAATTAATTAATGTTTTTCCGCTAAAATGATGATACAAGTTGAAGACACATCACTCTGAAATTGGA
AGACCTCACCCTTAAGGCTCCACAGTGGCTTACTCAGCTGAAGTCTAGGTTACTACTCTTTACTTTGTTTACCC
ATTGGGGGGTGCAGTTTTTTTTTAAATGTTGGGAGATGGCCATTCTAACTACTGTTGAATGTCTCTGTTTTGGGAA
GGTATAACAAGAAATAAAAAAGAATATATGAAGGGAGAGACTGGTTATCTCCTCCCTATATGGTTGTGCTTAT
CCTCTTACGGCTTACAAATGAATATTTGGAGGTTTGCTTTCACAATGATTTCCCATCAACAAATATTTTAGTAG
GATTTTTCTGTTTCTGTTAGTCTTGCAGTACTATAAATGTTTTAAGCTGAGCATACTGTAATAGTCATAAGT
TTAATTTTCAATTATAATAAAAAATCAACAAAAGGCCTTTAGAACCAAGACAATGAGCTAGTTTTCCCTAAAG
TTTGCTGAAGTATTAAGGAATATGTTCTTATAGCTTTTGAAGTGAATGAGTCATGGGAATTCTAAGAAGGGATGG
CCTAGACATTTTGTAGCTCAGTTAAATTCAGCATTTAATGCAGGTGAGTTTCTGGGTCGTTTTTCAAGTCTGCTGG
AACAGTCTGGTTCTGACTCAAAGTGGTATAAAGCATTATTTTAGGTTTTTCTCTTTGCCAGTTTTTAAAGCAGTTAT
AACCATGTAAATCAAGATGTGAGGACATCTATATGAAGTATAGTAAAGAAGTGGTGTGAGCAGATCAATATGTGT
GTCCTGGGTGTGCTGCTCTCTTAAGTGAGACTTTGTGAGACTATACTTTAAATGCATTATTACCATTGCTTACAT
TTTGGGGGATTTTTTCTCTCCCAAAAGTCCATTTCTATTGTAATATTCTTAATGACAATTTTTTTTTTTTTT
AGCAGTGTATGTTTGAACAGCCAAAGATGGCGATGAACCAAGTGTAAATTGATCTAAGCAGCCCATGCAGTTTG
TGTTGAATCAACAAACAGTGTATTGTTGAAGTGAATTTATTTCTGAAATGACTTGTTAGACCAGTTTTGAGGAC
ATACTCAAAGTAGAGTAATAATGGCTCCTGGGATGGAGAAATATGAGATGAACCTGGAACATTCTATTATGGTG
CCCCAAGGAAATATAAAAAAAAAAAAAAAAAAAAAA

1137/2777
FIGURE 1000

MFLVLKKKHICHRLVNIQLNMYVCCLDKCNHCKHLYDLGFCFYFEMGAFLTSSLKTKNCFCKEMRFFLNKK
CLADSLNKNLPNFLIDYFKPFVTWYSFASQFRFRVITFPLFLRKMKKVILLSEGERHSFIFFFVFFFFYDLQAA
YVLQLPELGIVAAAR

1138/2777
FIGURE 1001

GCGCGGGGGAGCCATTAGGAGGCGAGGAGAGAGGAGGGGCGCAGCTCCCGCCCAGCCCAGCCCTGCCAGCCCTGC
CCGGAGGCAGACGCGCCGGAACCGGGACGCGATAAATATGCAGAGCGGAGGCTTCGCGCAGCAGAGCCCGCGCGC
CGCCCGCTCCGGGTGCTGAATCCAGGCGTGGGGACACGAGCCAGGCGCCGCCCGGAGCCAGCGGAGCCGGGGC
CAGAGCCGGAGCGCTCCGCGTCCACGCAGCCGCCGCCGAGCAGCCAGGGCCCTGC**ATGC**CAGGTGCTTGG
AGGTGGCAGCGAGACATGCACCCGGCCCGGAAGCTCCTCAGCCTCCTCTTCTCATCCTGATGGGCACTGAACTC
ACTCAAGTGCTGCCACCAACCTGAGGAGAGCTGGCAGGTGTACAGCTCTGCCAGGACAGCGAGGGCAGGTGT
ATCTGCACAGTGGTCGCCCCACAGCAGACCATGTGTTACGGGATGCCCGCACAAAACAGCTGAGGCAGCTACTG
GAGAAGGTGCAGAACATGTCTCAATCCATAGAGGTCTTGGACAGGCGGACCCAGAGAGACTTGCACTACGTGGAG
AAGATGGAGAACCAAATGAAAGGACTGGAGTCCAAGTTCAAACAGGTGGAGGAGAGTCATAAGCAACACCTGGCC
AGGCAGTTTAAAGGCGATAAAAGCGAAAATGGATGAACTTAGGCCTTTGATACCTGTGTTGGAAGAGTACAAGGCC
GATGCCAAATTGGTATTGCAGTTTAAAGAGGAGGTCCAGAATCTGACGTCAGTGCTTAACGAGCTGCAAGAGGAA
ATTGGCGCTATGACTACGATGAACTTCAGAGCAGAGTGTCCAATCTTGAAGAAAGGCTCCGTGCATGCATGCAA
AACTAGCTTGCGGGAAGTTGACGGGCATCAGTGACCCCGTGACTGTCAAGACCTCCGGCTCGAGGTTCCGGATCC
TGGATGACAGACCCTCTCGCCCTGAAGGCGATAACCGGGTGTGGTACATGGACGGCTATCACAACAACCGCTTC
GTACGTGAGTACAAGTCCATGGTTGACTTCATGAACACGGACAATTTACCTCCACCGTCTCCCCACCCCTGG
TCGGGCACGGGGCAGGTGGTCTACAACGGTTCTATCTACTTCAACAAGTTCCAGAGCCACATCATCATCAGGTTT
GACCTGAAGACAGAGACCATCCTCAAGACCCGCGAGCCTGGACTATGCCGGTTACAACAACATGTACCACTACGCC
TGGGGTGGCCACTCGGACATCGACCTCATGGTGGACGAGAGCGGGCTGTGGGCCGTGTACGCCACCAACCAGAAC
GCTGGCAACATCGTGGTCAGTAGGCTGGACCCCGTGTCCCTGCAGACCCTGCAGACCTGGAACACGAGCTACCCC
AAGCGCAGCGCCGGGGAGGCCTTCATCATCTGCGGCACGCTGTACGTACCAACGGCTACTCAGGGGGTACCAAG
GTCCACTATGCATACCAGACCAATGCCCTCCACCTATGAATACATCGACATCCCATTCAGAACAATACTCCCAC
ATCTCCATGCTGGACTACAACCCCAAGGACCGGGCCCTGTATGCCTGGAACAACGGCCACCAGATCCTCTACAAC
GTGACCCTCTTCCACGTATCCGCTCCGACGAGTT**GTAG**CTCCCTCCTCCTGGAAGCCAAGGGCCACGTCTCTCA
CCACAAAGGGACTCCTGTGAAACTGCTGCCAAAAGATACCAATAACACTAACAATACCGATCTTGAAAAATCAT
CAGCAGTGCGGATTCTGACATCGAGGGATGGCATTACCTCCGTGTTTCTCCCTTTTCGAGCCGGCGGGCCACAGAC
GTCGGAAGAAACTCCCGTATTTGCAGCTGGAAGTGCAGCCACGGCGCCCGGTTTTCTCCCGCCCTGTCCCT
CTCTGGTCAAACAACATACTAAAGAGGCGAGGCAATGACTGTTGGCCAGTTCTCACCAGGGGAAAAACCCACTGTT
AGGATGGCATGAACATTTCTTAGATCGTGGTCAGCTCCGAGGAATGTGGCGTCCAGGCTCTTTGAGAGCCATGG
GCTGCACCCGGCCGTAGGCTAGTGTAACCTCGCATCCCATTCAGTGCCGTTTCTTGACTGTGTTGCTGTCTCTTA
GATTAACCGTGCTGAGGCTCCACATAGCTCCTGGACCTGTGTCTAGTACATACTGAAGCGATGGTCAGAGTGTGT
AGAGTGAAGTTGCTGTGCCACATTGTTTGAATCGCGTACCCCGTAGATACATTGTGCAACGTTCTTCTGTTAT
TCCCTTGAGGTGGTAACTTCGTATGTTCAAGTTTATGCGATGATTGTTGTAAATGCAATGCCGTAGTTTGGATTAA
TAAGTGGATGGTTTTTGTCTTAAAAAGAAAAAAAAAATCAGTGTTACCCCTTAGAGACATAGTCAAGTTCAT
GTTGATAATAATCAAAGGAATTACTCTCTTCTGTTAAATTAGCTAAATCATGTAACCGCAGATAGGAAGGGCTC
ACCTGGGGAAACTCTGGTTTCCGATGGGACAGGAAAGTCATACGGGCAACAGTATGCGGAAAGTACGTTTTTTTA
AGTAAAAAACAAAGGCAAACTTTGTACTATCCAGTTATCTAAGGAACAATAAAAAACATTAGGAGAAAAAAAAA
AAA

1139/2777
FIGURE 1002

MPGRWRWORDMHPARKLLSLLFLILMGTELTQVLPTNPEESWQVYSSAQDSEGRICITVVAPQQTMCSR DARTKQ
LRQLLEKVQNMSQSIEVLDRRTQRDLYVEKMENQMKGLESKFKQVEESHKQHLARQFKAIKAKMDELRLIPVL
EEYKADAKLVLFKEEVQNLTSVLNELQEEIGAYDYDELQSRVSNLEERLRACMQKLACGKLTGISDPVTVKTSG
SRFGSWMTDPLAPEGDNRVWYMDGYHNNRFVREYKSMVDFMNTDNFTSHRLPHPWSGTGQVVYNGSIYFNKFQSH
IIIRFDLKTETILKTRSLDYAGYNNMYHYAWGGHSDIDLMVDESGLWAVYATNQNAGNIVVSRLDPVSLQTLQTW
NTSYPKRSAGEAFIICGTLYVTNGYSGGTKVHYAYQTNASTYEYIDIPFQNKYSHISMLDYNPKDRALYAWNNGH
QILYNVTLFHVIRSEDL

1141/2777
FIGURE 1004

GAATTCGGCACGAGCTCTTCTCCCCTGATTCAAGACTCCTCTGCTTTGGACTGAAGCACTGCAGGAGTTTGTGAC
CAAGAACTTCAAGAGTCAAGACAGAAGGAAGCCAAGGGAGCAGTGCAATGGATTCTCAGTAAAGGTAGACATAG
AGAAGGAGGTGACCTGCCCCATCTGCCTGGAGCTCCTGACAGAACCTCTGAGCCTAGATTGTGGCCACAGCTTCT
GCCAAGCCTGCATCACTGCAAAGATCAAGGAGTCAGTGATCATCTCAAGAGGGGAAAGCAGCTGTCTGTGTGTC
AGACCAGATTCCAGCCTGGGAACCTCCGACCTAATCGGCATCTGGCCAACATAGTTGAGAGAGTCAAAGAGGTCA
AGATGAGCCACAGGAGGGGCAGAAGAGAGATGTCTGTGAGCACCATGGAAAAAACTCCAGATCTTCTGTAAGG
AGGATGGAAGATCATTGTCTGGGTTTGTGAACTGTCTCAGGAACACCAAGGTACCAAACATTCCGCATAAACG
AGGTGGTCAAGGAATGTCAGGAAAAGCTGCAGGTAGCCCTGCAGAGGCTGATAAAGGAGGATCAAGAGGCTGAGA
AGCTGGAAGATGACATCAGACAAGAGAGAACCGCCTGGAAGATCGAGAGACAGAAGATTCTGAAAGGGTTCAATG
AAATGAGAGTCATCTTGGACAATGAGGAGCAGAGAGAGCTGCAAAAGCTGGAGGAAGGTGAGGTGAATGTGCTGG
ACAACCTGGCAGCAGCTACAGACCAGCTGGTCCAGCAGAGGCAGGATGCCAGCACGCTCATCTCAGATCTCCAGC
GGAGGTTGACGGGATCGTCAGTAGAGATGCTGCAGGATGTGATTGACGTCATGAAAAGGAGTGAAAGCTGGACAT
TGAAGAAGCCAAAATCTGTTTCCAAGAACTAAAGAGTGTATTCCGAGTACCAGATCTGAGTGGGATGCTGCAAG
TTCTTAAAGAGCTGACAGATGTCCAGTACTACTGGGTGGACGTGATGCTGAATCCAGGCAGTGCCACTTCGAATG
TTGCTATTTCTGTGGATCAGAGACAAGTGAAAAGCTGTACGCACCTGCACATTTAAGAATTCAAAATCCATGTGATT
TTTCTGCTTTTGGTGTCTTCGGCTGCCAATATTTCTCTTCGGGGAAATATTACTGGGAAGTAGATGTGTCTGGAA
AGATTGCCTGGATCCTGGGCGTACACAGTAAAATAAGTAGTCTGAATAAAAGGAAGAGCTCTGGGTTTGTCTTTG
ATCCAAGTGTAATATTATTCAAAAGTTTACTCCAGATATAGACCTCAATATGGCTACTGGGTTATAGGATTACAGA
ATACATGTGAATATAATGCTTTTGGAGACTCCTCCTCTTCTGATCCCAAGGTTTTGACTCTCTTTATGGCTGTGC
TCCCTGTCTGATTGGGGTTTTCTTAGACTATGAGGCAGGCATTGTCTCATTTTTTCAATGTCACAAACCACGGAGC
ACTCATCTACAAGTTCTCTGGATGTCGCTTTTCTCGACCTGCTTATCCGTATTTCAATCCTTGGAAGTGCCTAGT
CCCCATGACTGTGTGCCACCGAGCTCCTGAGTGTTCTCATTCCTTTACCCACTTCTGCATAGTAGCCCTTGTGC
TGAGACTCAGATTCTGCACCTGAGTTTCATCTCTACTGAGACCATCTCTTCCTTTCTTTCCCTTCTTTTACTTAG
AATGTCTTTGTATTTCATTGTCTAGGGCTTCCATAGCAAAGCATCATAGATTGCTGATTTAACTGTAATTGTATT
GCCGTACTGTGGGCTGGAAATCCCAAATCTAGATTCCAGCAGAGTTGGTTCTTTCTGAGGTCTGCAAGGAAGGGC
TCTGTTCCATGCCTCTCTCCTTGGCTTGTAGAAGGCATCTTGTCCTATGACTCTTCACATTGTCTTTATGTACA
TCTCTGTGCCCAAGTTTTCCCTTTTATTAAGACACCAGTCATACTGGCTCAGGGCCCACCGCTAATGCCTTAAT
GAAATCATTTTAAACATTATATTCTCTACAAAGACCTTATTTCCAAATAAGATAATATTGGAGGTATTGGGAATA
AAATTTGAGGAAGGCACGATTTCACTCATAACAATCTTACCCTTTCTTGCAAGAGATGCTTGACATTATTTTCC
TAATACCTTGGTTTCACTAGTAGTAAACATTATTATTTTTTTTATATTGCAAAGGAAACATATCTAATCCTTCC
TATAGAAAGAACAGTATTGCTGTAATTCCTTTTCTTTCTCTCCTCATTTCTCTGCCCCCTAAAAGATTGAAGAA
AGAGAACTTGTCAACTCATATCCACGTTATCTAGCAAAAGTCATAAGAATCTATCACTAAGTAATGTATCCTTC
AGAATGTGTTGGTTTACCAGTGACACCCCATATTTCATCACAAAATTAAAGCAAGAAGTCCATAGTAATTTATTTG
CTAATAGTGGATTTTTAATGCTCAGAGTTTCTGAGGTCAAATTTTATCTTTTCACTTACAAGCTCTATGATCTTA
AATAATTTACTTAATGTATTTTGGTGTATTTTCTCAAATTAATATTGGTGTTCAGACTATATCTAATTCCTCT
GATCACTTTGAGAAACAACTTTTATTAAATGTAAGGCACTTTTCTATGAATTTTAAATATAAAAAATAATATTG
TTCTGATTATTACTGAAAAGATGTCAGCCATTTCAATGTCTTGGGAAACAATTTTTTGTTTTTGTCTGTTTTCT
TTTTGCTTCAATAAAACAATAGCTGGCTCTAAAAA

1142/2777
FIGURE 1005

MDFSVKVDIEKEVTCPICLELLTEPLSLDCGHSFCQACITAKIKESV IISRGESSCPVCQTRFQPGNLRPNRHLA
NIVERVKEVKMSPQEGQKRDVCEHHGKKLQIFCKEDGKVICWVCELSQEHQGHQTFRINEVVKECQEKLQVALQR
LIKEDQEAEKLEDDIRQERTAWKIERQKILKGFNEMRVILDNEEQRELQKLEEGEVNVLNLAATDQLVQQRQD
ASTLISDLQRRLTGSSVEMLQDVIDVMKRSESWTLKKPKSVSKKLKSVFRVPDLSGMLQVLKELTDVQYYWVDVM
LNPGSATSINVAISVDQRQVKTVRTCTFKNSNPCDFSAFGVFGCQYFSSGKYYWEVDVSGKIAWILGVHSKISSLN
KRKSSGFADFPSVNYSKVYSRYRPQYGYWVIGLQNTCEYNAFEDSSSSDPKVLTLFMAVLPVVLGFS

1143/2777
FIGURE 1006A

CGGACGCGTGGGTTGGATTTTTTCCGTGGATCTATCAATTCAATTGCAATTTGGAAGAAAGAAGGAAAACATG
ACGTCTCCAGCCAAATTCAAAAAGGATAAGGAGATCATAGCAGAGTACGATACTCAGGTCAAAGAGATCCGTGCT
CAGCTCACAGAGCAGATGAAATGCCTGGACCAGCAGTGTGAGCTTCGGGTGCAACTGTTGCAGGACCTCCAGGAC
TTCTTCCGAAAGAAGGCAGAGATTGAGATGGACTACTCCCGCAACCTGGAGAAGCTGGCAGAACGCTTCTGGCC
AAGACACGCAGCACCAAGGACCAGCAATTCAAGAAGGATCAGAATGTTCTCTCTCCAGTCAACTGCTGGAATCTC
CTCTTAAACCAGGTGAAGCGGGAAAGCAGGGACCATAACCACCCTGAGTGACATCTACCTGAATAATATCATTCTC
CGATTTGTACAAGTCAGCGAGGACTCAGGAAGACTCTTTAAAAAGAGTAAAGAAGTCGGCCAGCAGCTCCAAGAT
GATTTGATGAAGGTCCTGAACGAGCTCTACTCGGTGATGAAGACATATCACATGTACAATGCCGACAGCATCAGT
GCTCAGAGCAAATAAGGAGGCGGAGAAGCAGGAGGAGAAGCAAATTGGTAAATCGGTAAAGCAGGAGGACCGG
CAGACCCACGCTCCCTGACTCCACGGCCAACGTTTCGATTGAGGAGAAACATGTCCGGAGGAGCTCAGTGAAG
AAGATTGAGAAGATGAAGGAGAAGCGTCAAGCCAAGTACACGGAGAATAAGCTGAAGGCCATCAAAGCCCGGAAT
GAGTACTTGCTGGCTTTGGAGGCAACCAATGCATCTGTCTTCAAGTACTACATCCATGACCTATCTGACCTTATT
GATCAGTGTGTGACTTAGGCTACCATGCAAGTCTGAACCGGGCTCTACGCACCTTCTCTCTGCTGAGTTAAAC
CTGGAACAGTCGAAGCATGAGGGTCTGGATGCCATCGAGAATGCAGTAGAAAACCTGGATGCCACCAGTGACAAG
CAGCGCTCATGGAGATGTACAACAACGTTCTTCTGCCCCCTATGAAGTTTGAGTTTCAGCCCCACATGGGGGAT
ATGGCTTCCAGCTCTGTGCCAGCAGCCTGTCCAGAGTGAGCTGGTACAGAGATGCCAACAACTGCAGTCTCGC
TTATCCACTCTAAAGATTGAAAACGAAGAGGTAAAGAAGACAATGGAGGCCACCTGCAAACCATCCAGGACATT
GTGACTGTGAGGACTTTGATGTGTCTGACTGCTTCCAGTACAGCAACTCCATGGAGTCCGTCAAGTCCACGGTC
TCTGAAACCTTCATGAGCAAGCCCAGCATTGCTAAGAGGAGAGCCAACCAGCAAGAGACAGAGCAGTTTTATTTT
ACAAAAATGAAAGAGTACCTGGAGGGCAGGAACCTCATCACCAAGTTACAAGCCAAGCATGACCTTCTGCAGAAA
ACCCTGGGAGAAAAGTCAGCGGACAGATTGCAGTCTAGCCAGGCGCAGCTCAACTGTGAGGAAACAGGACTCCAGC
CAGGCAATTCTCTGGTGGTGGAAAGCTGTATCCGGTTTATCAGCAGACACGGACTACAGCATGAAGGAATTTTC
CGGGTGTGAGGATCCAGGTGGAAGTGAATGACATCAAAAATGCCTTTGAGAGAGGAGAGGACCCCCCTGGCTGGG
GACCAGAACGACCATGACATGGATTCCATAGCTGGTGTCTGAAGCTTTACTTCCGGGGGCTGGAACACCCCTCTC
TTCCCCAAGGACATCTTTCATGACCTGATGGCTGCGTCACAATGGACAACCTGCAGGAGAGAGCTCTGCACATC
CGGAAAGTCTCTAGTCTTGCCAAAACCACTCTGATTATCATGAGATACCTCTTTGCTTCTCTCAATCATTTA
TCACAGTTTCAGTGAAGAGAACATGATGGACCCCTACAACCTCGCCATCTGCTTCCGGGCCCTCGCTAATGTCAGTG
CCAGAGGGCCACGACCAGGTGTCTGCCAAGCCCACGTGAATGAGCTGATCAAAACCATCATCATCCAGCATGAG
AACATCTTCCCAAGCCCCAGGGAGCTGGAGGGCCCTGTCTACAGCAGAGGAGGAAGCATGGAGGATTACTGTGAT
AGCCCTCATGGAGAGACTACCCCGGTTGAAGACTCAACCCAGGATGTGACCGCAGAGCACCACACGAGCGATGAC
GAATGTGAGCCCATCGAGGCCATTGCCAAGTTTGACTACGTGGGCGGACAGCCCGAGAGCTGTCTTTAAGAAG
GGAGCATCCCTGCTGCTTTACCAGCGGGCTTCCGACGACTGGTGGGAAGGCCGGCACAATGGCATCGACGGACTC
ATCCCCCATCAGTACATCGTGGTCCAAGACACCGAGGACGGTGTCTGAGAGAGGTCCAGCCCCAAGTCTGAGATT
GAGGTCAATTTCTGAGCCACCTGAAGAAAAGGTGACAGCCAGAGCGGGGGCCAGCTGTCCCAGTGGGGGTCTATGTA
GCCGATATTTATCTTGCAAACATCAACAAGCAAAGGAAGCGTCCAGAATCTGGGAGCATCCGGAAAACCTTTTCGG
AGTGACAGCCATGGGCTGAGCAGTTCCCTGACTGACTCCTCCTCCCCAGGGGTGGGGGCTAGCTGCCGCCCATCC
TCCAGCCCATCATGAGCCAGAGCCTCCCCAAGAAGGGCCAGATAAGTGTTCCATCAGTGGGCACGGGAGCCTC
AACTCCATCAGCCGCCACTCATCCCTGAAGAATCGGCTGGATAGTCCACAGATCCGGAAGACTGCCACAGCGGGA
AGGTCAAAAAGCTTCAATAACCATCGGCCATGGACCCTGAGGTCAATTGCTCAGGATATTGAGGCAACAATGAAC
TCGGCCCTGAATGAGCTACGGGAAC TAGAACGGCAGAGCAGTGTCAAACACACCCCTGACGTGGTTCTGGACACC
TTGGAGCCCCCTCAAAAACCTCCCCAGTGGTGGCCCCCACGTGAGAGCCCTCCAGCCCTCTGCACACCCAGCTCCTC
AAGGACCCCCGAGCCCGCCTTCCAGCGCAGCGCCAGTACTGCTGGGGACATCGCCTGCGCCTTCCGGCCTGTCAAG
TCTGTCAAGATGGCTGCCCCGGTCAAACCACCAGCCACACGGCCCAAGCCCACTGTCTTCCCCAAAACAAATGCC
ACTAGCCCTGGTGTCAACTCATCAACTTCCCCACAGTCTACTGACAAGTCTTGTACTGTCTGAGGGATAATAATT
TAATTGTTCTAGACAAGGGGACTATAGGGACTGACTGTTATTAATAATCTTCTATTTAACTAGCTTGGGGACTTC
AGTTGAAAATTAGGTTCTAAGTTGTTCTTGCAGGAATTAGCCTCCCCGTCTCCCAAAACCTTGAGAATGAAGCCC
TTGGTATCGCCTCTCCCTTCCCACTGCCCTCTGCTTCCCCAGTCGTCGTAATTCAGCCAGCTGCAGTCCGTACC
GTTCTTAGGTTAGCCAGAGACAGGTTTTTCATTATCAGGTCACTGTGAAATCTGGTAAGGCAGTCTGAGGACATG

1144/2777
FIGURE 1006B

GGCTCAAGTCTCAGTCCCCTCAGACCACGGTGATGCCTTGACCAGATGGTTGGCTACTGCCATCCAGCTTTCAGT
GGCATCTTGTTTTGGGAAGTGAATTATAGAGAATCATATATAGTCCAGTCTTCATTTTACATACACACACATATTT
TACACACACACACATTTTACACACACACACACACACACACACACATATGTTTTCTAGTCTCTGGCATGTG
TAGCCTCTCCTGGTCATAGACCAGTCTCTTTGTAAGTTATTGTGGCAGTTCACACAGTAGCCACCAGGGGTCTCT
GTTTCCATTACAACTTTGTTCTGTCTGGGCCAGAGAACCTAGCCTTTGAAATCTCTCCATCATGTGAAACATAA
CGGGATGGGACAATCCCGTAACCTGTTTGGGGTTGGGGCTTTCTCTCTGTGTTCTTTCCATTGATGTGAATTGG
TCATTGGTGTGTTGCTCTTGCTCTCCTCCATCCCCTAGAAGTACACCCCGTCTTATTAAGGAGCTTTTAAAGTT
TTTCTGAATGTATAGACATTTCTCGGGTTCCTACCTTTGTCTCTGATGGACCATTTTCCATTTAAGACATTTTCC
TGTATAAGACAGTTTTATAGCTGGTTCCTTTTAGGGTAAAGAGTCTTAAGAGAGTTTTATTGTGTCTATGGCAGG
TTTGGGAAAGGTAAGAAATGGGTCCCTTTTCTCCTAATGTTTTTGGCACTTAAACATAAAATTCATTATCCTA
TTAAAAAATTAAATTCAGCTTTGCTAATCCAGAAATTGTTCCCAAATGAAAACCTGTTTTAAAGTCCACCCCTTAG
TTTCTTATTTTACAAGGTCTCTCTTCAGGGACCAACAGGGGCTTAGAGAGCCTTAGTTAGATTAAAGGGAGACC
CTACCTCTTAAACCAGTTTTTCATTTATGCAAACAAGGACAATTAAGGGAACCCCTGACCCACAGGCTCTCAAGT
CTTCCCAAGGCCAGAATCGAAAAGAAAATTAAAATTTGAATGCTGAATATTCTGGCTCTACTCTGGCCTTTTTTCT
GGTTCCCTTTCCAAAATGCACAAATCATACCTTGTCTGCTCCAATTCAGTCTCCAAACCTGGTGCTGTGCTCCT
GGCCCCCTAGCATCATGCTATCCCAGGAGTATCAGGACCAGACACATCCACAGCCAGGCTCATGGGTCTCAGAC
AGCAACTTGAGTTAAAGCTGAAACTCATCCTTCTTCTCTGTGTTTTCTGGTTTAAAGCTGCACCTATATTTTAG
CCTTATTATTTTCTGTAGTTCCGGAGAGATGGTGGGTGGCCATTCTGGTAGGAAAATCTGAGTTTCTTATCTTT
GACCTAGAAGAGATTCTTTTTGGACCAACCTGCGAAATTGGTAGTTAGGTCTATGGAAAGTGGTAGGATTTTTTT
TTTTTTAATCCTGTGCAAAGGAAAAGAGGTGCTTTGTGGGAAATCACTAATGAGAAGGCTAACCTGCAGCACCAG
AGAAACCTTTCCAAGTGCTAGGCAGGAGAAGTGAAGAAGTCTTTTCAAGTGAAGTGAAGTGAAGTGAAGTGAAG
CCACAGTCTTGATTTTTTGTGTGCTGTTTCTGACCTGTTCTTGCCTGTACCTGGGCCTACACAGGTCCCGAGCCA
ACGGGGCTTTTCATACCCAAGGATCTGTTTCTGCTGAAAATGAAACCTATCTTTCACTTTACATTCCTTTCAA
TCCAAGTATCAAACTGGTACCCACACTTGCCCTTTCTCCCTCTCTCCAGCACACTCCCTCTAAGAAAGTAAA
AGCAAAGCTTTCTTAATGGCAACACTTTGGGCCTGTTCTGTTGCTCCTGCCTTATTTCTCTTTCAACCCTGTACA
TGACTCGTGTTACCATCCCTTGATCAGTGTCCATCCGCGCTAATTTGCATCATGAAGTGAACAGTGTGTGAGT
GGTACCTACTAAACCCAGCTCTGGGGGCAGAGCTGTCTTCCCATCTCTGGTGCTCCTAACACCTGTGAGATGG
TCCTGTGAGAGGACTAGGAACCGATAGGAGGAGAGTCTTCTCGGCAGAGCTCACTGCAAAACACTGGAATTGA
GGTTGCACACTGTGATTTTTACACCGAAAAGCCAAAAGGAGCTGGCCATCCAGGGCCTAGGGAGACCAGCCTTCC
TCAGCTATGCTTGCCGAAACCAGCATGATGCTTCAAAGAGCCTGCTCCACCCCTCATGGCATGGATCCTTTTCC
TGGTGTGGACTCTGAAGGGTCAGTCTTCGGGGAAGAGAGGTGGGGTGGGGCTACTAGCATCCCAATTTAGAAAAT
AGAGGAGTTTGTAGCCAGCAGCCTGTAAACTGGAAACACTGGTCTCAGCCAACCTCCTCAGGGCGCCCTGGCTTC
TCCCCAAGGAGATGAGGAGCGGTGATGCCAGCACCAGGATGCGCAGAGCACTGGAAGGGCTGGTGCAGATCTACT
TCCCATGCAGAAGAGAAGTCACATCTTCCAGGGAATCGCAATGTTGTGGCGTCTGACTTGTATGTCACATTTGTG
TAAAATGGTATATTCTTTAAAATAGTGTTGATAACTGGAATATTGTATGTATGCTTGGAGATGCTTTGTGTGAAC
CTAAGACTGTCACTCAACAGATGTTGGATTGGGGAATCCAAAGCACAACTTCAAAAATAAAATACATTTTTAGG
TTTCG

1145/2777
FIGURE 1007

RTRGLDFFRGSINSQFEFGRKKENMTSPA KFKKDKEIIAEYDTQVKEIRAQLTEQMKCLDQQCELRVQLLQDLQD
FFRKKAEIEMDYSRNLEKLAERFLAKTRSTKDQQFKDQNVLSPVNCWNLLLNQVKRESRDHTTSLSDIYLNNIIP
RFVQVSEDSGRLFKKSKEVGQQLQDDLMKVLNELY SVMKTYHMYNADSI SAQSKLKEAEKQEEKQIGKSVKQEDR
QTPRSPDSTANVRIEEKHVRRSSVKKIEKMKEKRQAKY TENKLKAIKARNEYLLALEATNASVF KYIHDLSDLI
DQCCDLGYHASLNRLRFTLSAELNLEQSKHEGLDAIENAVENLDATSDKQRLMEMYNNVFCPPMKFEFQPHMGD
MASQLCAQQPVQSELVQRCQQLQSRLSTLKIENEEVKKTMEATLQTIQDIVTVEDFDVSDCFQYSN SMESVKSTV
SETFMSKPSIAKRANQQETE QFYFTKMKEYLEGRNLITKLQAKHDLLQKTLGESQRTDCSLARRSSTVRKQDSS
QAIPLVVESCIRFISRHGLQHEGIFRVSGSQVEVNDIKNAFERGEDPLAGDQNDHMDSIAGVLKLYFRGLEHPL
FPKDIFHDLMACVTMDNLQERALHIRKVLLVLPKTTLIIMRYLFAFLNHL SQFSEENMMDPYNLAICFGPSLMSV
PEGHDQVSCQAHVNELIKTII IQHENIFPSPRELEGPVYSRGGSMEDYCDSPHGETTPVEDSTQDVTAEHHTSDD
ECEPIEAIKFDYVGRTARELSFKKGASLLLYQRASDDWWEGRHNGIDGLIPHQYIVVQDTE DGVVERSSPKSEI
EVI SEPPEEKVTARAGASCPSGGHVADIYLANINKQRKPESGSIRKTFRSDSHGLSSSLTDSSSPGVGASCRPS
SQPIMSQSLPKEGPDKCSISGHGSLNSISRHSSLKNRLDSPQIRKTATAGRSKSFNNHRPMDPEVIAQDIEATMN
SALNELRELERQSSVKHTPDVVLDTLEPLKTSPVVAPTSEPSSPLHTQLLKDPEPAFQRSASTAGDIACAFRPVK
SVKMAAPVKPPATRPKPTVFPKTNATSPGVNSSTSPQSTDKSCTV

1146/2777
FIGURE 1008

CATCTTGCTCAGGGTGGTCCTCTGGGAGTCTTTCCCCAGGGCTGATGCTGGGTGCCCTGCCCCAGTGAGATATGT
GTGGGTGGTATCTGTAAAGAGGTTTGTCTTGCAGTTGAAGGTGGGAAAAGAAGGAAGGGGGGGCATGCAATATGG
GTGAGGGTAGGGTATTACCTTTTTTTTGCAGCATTTTTCGGCCTCTTTATTTAGAACCCGGCGGACGAGGGGCCG
GGGCAGTGGTACAGACGGCTCAGGAACCATTTTAACAGACTTGTCTTCAAGTTTCAGATAAACACAGTCATAATA
AGAGAGACAGCGAAAGCGCGAAGAGACTGCAAGCTAGATGGGCATGTATGGCAGCTACAGCTTGTGAGTGACCCC
CTTCCCCAGAGTCCGCGATGAAAATAAAGTTACACTTGTCAATAACCAGATGTGGGAGATGGAGAGTGCCTTTGG
CATAACCAATAACCGAGCTAGTGCCTGGCAGAGCGGTCCACGCCTGGACATAAATAGAAAATATAAGTTAGTATA
ACTTTAAAAACTTTTTGTACAAATATACATGGTTTTTTTATTTTTTCTTTTTTTTTCTTTTTCTTTTTTTTG
CACTGAGTTTCAGCAGAGATTAAACATTTTATATAAATGACTCTTAAAGCTTTACACCTTGGGACCAGTGTACCT
TCTCGTGAGAATACATTTAGATATAAAAAAGACGTTATTAATACATTGCACAGTTTTCAAATTTAAAAACAAAA
CCGAACGCTGCTCTGCGGCAGCCGCCCGCGGTGCTGCTACATGAACGGTCCCAGCCGAGGCCAGCGCCCTTCC
AACGTCCGCTGCCCCGGCAGGTTCCCTCGGGGCTCTTTGGGCTCTAAATTGGCTCACCGCAGCCTCTTGCGCGGG
GTCTGCTCCACCGAGCCACGCCAGGGGCGGCGCTTGGAGAGGGACACGGCGCGGGGACATCGCCCGACGACTTC
TCAGGCGCTGATCTCTTGCGCTTGGCGAAGAAATCTGCACCGACTCGCGGATAGAACGCGGGCACCGAGTCGACT
GTCCACTTCGGTCCAGCTGCAGGCGTCCAGGGCCCCGCAGCGGCATGTCTGCTGGAAGTCGTAATCCCAGCGGT
TCTGGTCCTCGGCGTTTCTGCTCGGCCAGGCGGGCCTGCAGCTCGCGGCTCAGCTCCTCGTGGTCCACCGGCCCGA
AGAGGCTGCGGCAGGCGCTGGTGCGCACTAGTGCTGGGAAGGTCCCACGGGCGACAGACGCTCCATCGTGGATGT
GCTGGCTGTCCGGTGGTTGACTCTTCTGCGTCGGGTCGCCTGTCT

1147/2777
FIGURE 1009

ILLRVVLWESFPRADAGCPAPVRYVWVSVKRFLQLKVGKEGRGGMQYG

1148/2777
FIGURE 1010

GACAGAGCAAGATCTTGTCTCAAAAAAAAAAACAGCTCTGGATGGGAAGGGAGGCCAGTTGCTTTAAGTAGGGGA
GATAGAGTTAAAGGAGGCTTTGTTTTATTTAAAGGTGGGACAACTTAAGCATGTTAATAAAATTCAGAGAAGAG
AAAGAGAATGACTATCAGAGCCATGTTTGGGAAGAAAATGGGGTCCAGAGCACAGGAAGGGGACCTGTGTTTCAGAG
GGTGCCCTCACTGCTGAGGCCACAGGAAAGAATCTGTAGGTGGAGGGGAGGCCGAAGAGGGGAAGTTTCATGCTTG
ATAATTAAAATTTTCTGAGATAGGAATGTCATATTTACCTATTTAAGCCAAGTTTTTTTAGATAAAAGGTATGGA
ACCTGCTTTCCCCTTGCTAGTTCAGCGTTTGGGCTCCGGAGTGCTGAAGATGAGGACTGGACTTCGAGCTGGTG
TGATCCCAGTATTCAGTGTGCTAGTACTCAGTGACAAAATAAATGAGAGAAACGGGAATAAGAATTGTCGCCTACAC
AAAAATACCAGCAACTGTTAACTCTTCCAGAAAGATTTTCATTCTGAATGCTCCTGTAGCTAGGAACCCCTAAAAA
GTCTTTGAAGCAACTCAAGTTTTTAAAAAAGGGGAGGAACCTCTGGAAATCTCAGGATGGGGCCAAGATGTGGCTG
GAGAGTGTGTGGTGATGGAGGGCGTGTCTTTTGCCGAGCACACTCAGGGCCCACGGGAAGCCCATAGACTTCAAG
GACATCAAGCCCCAAGGTGGTGGGATTTTCCCCACCAGTACTTGGCAGCCTAGGGGGGAAGGGGAGGGCGGGAGAA
GATAATGGGGATCCCTGGCTCCAAACATAGGAGGACACATCTGTGCTACAGTGCGCACATGCCTGGATGTACACT
CTGTCTTTGGAGACACTGGCTAAGATTCTCTGCTCCATGTTTGGACAGGGTCGTGCCTGATCTGAGATAAATGGA
CAAGAACAACCTGAAGCCTGTCTTCTGGTGATGTGTACCTGCCGATAACTGCATCTTGTGATAAAGTTGGGTGA
TTTACAGTCTCCACCAAATGCTAAACTCTGGGGTCTTACGCCTTTATAACTCCATGGGGCCCCAGCAAAGGTTTCAG
GCTCAAAACAGGTGTCAAATAGATAACTGTTGAATGATTGTTCCCCAGTTGCAGGCTCTGCCACCTGGCGTTTCAT
ACTGTCTGTGAAAGGACCCAGCTCACCTTTCCCTCTTTATCTCCAGTCTTCCCAACAGCGCCGACACCTCATG
GAAACTGATTGCAAATGTGCTACTTCTCACTTCTGTGTGGCCCGAGGAGGCTGGGTTAATGCTGGGCTTGGTACC
TTAAGCACCCCTTTCTCCCTTCCCCATCTTCATTCTCAGAATTACACCTGTCTGAAGCAGGCATTTTCCAATGCCC
TAGATGGGAATATAAGTGTAAGGAGATGTGAAGCATTTGCCTGTGTGTGAGAACATTCAGTGGGATCCTCATAG
GCATTCTAGAAAACCAAATCCTTGAAGATGACTAACCAGAAATGCCCGTCATAGCACTGTTTACAGTTGCAAAAA
CTGAAGCCAATTGAAATGTCCATCAGGAGGGGATTAAATGAATTATGGTACAGTTACACCGTTGAATATTTTACA
GCCATTGAAGATGATATATAGCTATATTCAATTGACAAGGAAAACCTCATATTTTTTAGTGAAAAAAGCAGGTTATA
GAATTGCATGATATTCACATTTATATAAACTTTATATATGGGAAGGATGTTGATTGAATTGTTAATAACTATGG
TCACCTCTAGAGATGGAAGTTTGCATTACCTTTAATTTTTAATACCATTTTGTATTGCTTAAAAATTTGTATGTAT
TATCGTTAAAAATAAGAAAAATCAAATAAAGCTATTTTCATTATGGGAACGAAAAAAATCTATGTCGGTGCGGA
GAAAGAGGTAATGAAATGGCA

1149/2777
FIGURE 1011

DRARSLKKKNSSGWEGRPVALSRGDRVKGGFVLFKGGTNLSMLIKFREEKENDYQSHVWKKMGSRAGEGDLCE
GASLLRPQERICRWRGGRGGEVSCLIIKIF

1150/2777
FIGURE 1012A

ATGAGGCGCTGCCGGGTGGGCGGCCCTGGCCCTGGGGCTGCTGCGCCTCTGCTTGGCTCAGGCCAACTTCGCCCCG
CACTTCTTCGACAACGGGGTCGGCAGCACCAACGGAAACATGGCTCTGTTTCAGCCTCCCAGAGGACACCCCTGTA
GGCTCTCACGTATACACCTGAATGGGACAGACCCTGAGGGAGACCCCATCTCCTACCACATCAGCTTTGACCCC
AGCACTAGAAGCGTCTTTTCTGTTGACCCCACTTTTGGAAACATCACCTGGTTGAAGAGCTGGACAGAGAGAGG
GAAGATGAGATTGAAGCCATCATCAGCATTCTGATGGCCTGAATCTGGTGGCCGAAAAAGTCGTGATCCTGGTG
ACCGATGCCAATGATGAGGCGCCAGGTTTCATCCAGGAGCCTTATGTTGCCCTGGTTCCCGAGGACATACCTGCT
GGGAGCATCATCTTTAAGGTCCATGCAGTGGACAGGGACACAGGCTCTGGAGGGAGTGTACCTACTTCTCTGCAG
AACCTGCACTCCCCATTTGCCGTGGACCGCCACAGCGGTGTGCTGCGCCTCCAGGCTGGGGCCACTCTGGACTAC
GAGAGGTCCCGGACCCACTACATCACCGTGGTCGCCAAGGATGGCGGTGGGAGGCTTCATGGGGCTGATGTGGTG
TTCTCAGCCACCACCGGTCACGGTCAATGTGGAGGATGTTTCAGGACATGGCCCTGTCTTCGTGGGCACACCC
TACTATGGCTATGTGTACGAGGACACCCCTTCCGGGCTCGGAGGTAAGGTTGGTCCCATGGATGGAGACCGG
GGCAAACCCAATCGAATTCTCTACAGCCTTGTAATGGGAACGATGGAGCCTTTGAAATTAATGAGACATCTGGA
GCCATCTCCATCACTCAGAGCCCCGGCCAGCTCCAGAGAGAGGTGTATGAGCTGCATGTACAGGTGACTGAAATG
AGCCCTGCGGGGAGCCCAGCTGCCCAGGCCACCGTCCAGTCACCATCAGGATTGTGGACCTCAACAACACCCCG
CCAACATTCTATGGAGAGAGCGGACCCCAAAACAGGTTTGAGCTGTCCATGAATGAGCACCCACCCAGGGAGAG
ATCCTGCGGGGCTCAAGATCACCGTCAATGACTCCGACCAGGGAGCCAATGCCAAATTCAACTTGCACTGGTG
GGACCCAGGGGCATCTTCCGAGTGGTTCCACAGACAGTCTGAATGAAGCCCAAGTCACAATCATTGTGGAGAAC
TCAGCTGCCATTGACTTTGAAAAGTCCAAAGTATTAACCTTCAAGCTCCTGGCTGTTGAAGTGAACACCCAGAG
AAGTTTCAGTTCCACAGCGGATGTTGTGATCCAGCTCCTGGACACCAATGACAATGTCCCCAAGTTCGACTCCCTC
TACTACGTTGCCAGGATTCTTGAGAACGCCCCAGGGGCTCCAGCGTGGTGGCTGTACAGCTGTGGATCCAGAT
ACAGGACCTGGGGCGAAGTGAATATTCCACCTATGGGACTGGGGCAGACCTCTTCTGATCCACCCATCCACT
GGGCTTATCTACACCCAGCCCTGGGCTAGCCTGGACGCTGAGGCCACTGCCAGGTACAACCTTCTATGTGAAGGCA
GAGGACATGGAAGGCAAGTACAGCGTAGCTGAGGTGTTTATCACACTGCTGGATGTCAATGACCACCCCTCAG
TTTGGAAAGAGCGTTTCAAGAAGACGATGGTGCTAGGGACCCAGTGAAAATTGAGGCCATAGACGAGGATGCA
GAGGAACCCAACAACCTGGTGGACTATTCCATCACCCATGCAGAGCCCGCCAACGTGTTTCGACATCAATTCCAC
ACGGGGGAGATCTGGCTCAAGAATTCCATCCGCTCCCTGGATGCCCTGCACAACATCACACCTGGAAGGGACTGC
CTATGGTCCCTAGAGGTGCAGGCCAAGGACCGGGGCTCCCCATCCTTCAGCACACAGCCTTACTCAAGATTGAC
ATCACAGATGCTGAGACCTCTCCCGGAGCCCATGGCTGCCTTCTGATACAGACCAAGGACAACCCCATGAAG
GCCGTGGGTGTGCTGGCCGGCACCATGGCCACCGTCTGGCCATCAGTGTCTCATCTCCACCGCCACCTTCTGG
CGCAACAAGAAGTCTAACAAGGTCTGCCAATGCGGCGGGTGTCCGCAAGCGGCCAGCCCTGCGCCCCGCACC
ATCCGCATTGAGTGGCTCAAGTCCAAGAGCACCAAAGCCGCTACCAAGTTCATGCTCAAAGAGAAACCTCCCAAT
GAGAACTGTAACAACAACAGCCCAGAAAGCTCTCTGCTCCCGAGAGCTCCGGCTCTCCCTCCACCAACCCAGCGTG
GCGCCAGCACTGGCGCAGCCAGTGGACCGTGCCCTACTGTCTCTGGCTCTCTCACTCCGCAGCCGACCCAAACC
CCGCCAAAACCCAAAATATGGGAAGCCCCGTCCAGTCAACTCTGATCTCTGAGCTCAAGCAAAAGTTTGAGAAG
AAGAGTGTGCACAACAAGGCTTACTTCTAGTGTATGCCCTATGACCCCCCATCTTTCTCCGCCCCCTGACCCCCA
CCACCCTGCTGCTCGGACTATGCTCCCCCTTCTGCTCCTTAAGGTCACTGACCCCTGTTTTGCACAATGGTAT
AATCCCCACTGTCTCATCTCTACCGCCACCTTCTGGCGCAACAAGAAGTTGCGCTCTGACAGGGCTCTAGTCAG
GGCCTTGGGCAAGACATTGGGCTCTAGGATGCAATTGGCAAATACGTCCCCGTTACTCAAATCCTTGGCACTACT
ACAATGCCCTCCATTCTTTCAGGGCTGAGAATTGACGAGAAGCCAGCTACCCATCCAGACCTCACAGTCCCTCA
GGTTCTACTGGGATCTCATCATCATCTTAGTCAAGCAGCAGGGCCCTGGCCACGTGGAGCAACACTGACTAGAA
TCTGGATCCTGACGCTGACAGCTGAGAGCAGGAGCAGGAAAAGGAGGCTCAGCACTGTCTCAGGCTGGAGGTGAG
CGAACCTCGTGGGCTGTAGGAAAGCAAATGTAGGTAAGGGGAGAGCAAGGATGCACAGAAAACACACTGACTGTG
GGACTGTGCCAGGATGCATTTGGAAAGATAGAGCATTCTGTCTGGGCAGAGACTGTGGACCTGGTATGCCACG
TGGGACAGAGGACACAGAGGTGGAAGATTGATCTTGCCAAGAGTGAGGGCAGATGTCTCCAGCCAGGACTGCCCT
GAGCCGCAAAATGTCAAAGCTGGAGCTATAGAGGTAGCCCTAAAGGCAACTAGAAGAGCATCAGGGCTGCTCTCT
GAGGAGCTGCCCCACAGCCATCCTTGAAGAGACAATTCAGGGCAGTTGATGAATATCAGGGCTGAGATGTGGTG
AGACTTCCGTTTTTATCCAGCTCTTTTGCTCACATCGCGTAACCTTGGGAAAGCTGTTTAAAGTCGCTGATCATC
CTCTTCTCATCTGTAAATGAAGAAAGTAGGCCCTGTCTACCTCACATGCAGGTCTAGGGTGAGGATTGAAGAAA

1151/2777
FIGURE 1012B

ATAGTGGTGATGAGGGCTTTAACCAAGTGCAAAGCGGCATGAATGCAAAGTATTTTTCTGCAGCCCAGTTCTGTG
GGTGCAGCTCTTCCAGAAAGTATTAGGAGCCTCACATCTACTCTGCCAAGCGCCCCAGCAGGCACTGTGCTGGGC
TTAGGGGCTACCACTGGATGATGGCATTGCCGTGACTCACACACCTCTACTTCTGTTCTTCCCTCACTCCATCCC
CGCTACCGTCCTGGCCAGCTACCGTCAGAGAGAACCAGAGCTCCAAGTCTTTAATTTGCCAAGATGAAGAAAATG
AGTTCTCAAGGAGGGAATGCTTTGCTTGAGGCCACACAGCAGGTTGGTAGCAAAGATCTTGTCTAGCCAGGGCAG
CCCTTATCAGCTTGTGACAACCTTCCCCAGGACAGAAGTCATACAAGGCCTCTGGGGTTAATACAAATAGGTTGT
GCCCTGCTTTAAGGAACCTGCTATCAGGAAATCTACATGTGTGCACAGAGAGAGAAAAGTAGAACAGTTCTTTGC
ATTTGGCTCTACTTACTAACAACCCCTCTAGAATACATTGGTGATTTTCAATTTAAAGAGATTGTATGCATTTGTGG
CTTTCCTGATTTCTGAGTCTGTGTTTGGAGGTGTTACTGAGATGTGCCAGTGTGCAGAATCCTTGCTGGGGTTTC
TACAGTCCCCAACGTGAACAGTATTAAGCAAGAGGTGGACTCGAGCAATCCAGGAGCCCAGACTGAGCAAATAAG
TACTTTCCAGCCTGTGTTTTCAGGAGAGGACTGTGCTGGATCATGCTTGCCCTCCACAGGGAATACAGCATCCTTA
CAGCTTGCAATCAACCTCTTTTGTAATGGAATAAAGTCTGTTACCCAAAGGCCATGCTGATCCCCCTGC
TCCCTGCTTTTCAATTTATGTTTGCTGACCTGTGGAGACCAGTCTTTCTGACACACAGTGAAGCTCAACTTGCCCTC
TGGCTGCTTCAGCAGGTGGATCCATTCTTCGACCCCCAGATGTGACTCTAAAGAAGGCTGAAAAATTTTTGTCCAA
ATTGCCATGCAGATATCTTGAAACAGCAGGACATTTGCAGGCCTTGTCTACTGGACTTTTCTCCCAAACAGGACAA
GCCCAGGCAGGGCTGCATGGAGAGGAATGGAACCTGGAGCTAGAATTAATTGCCCACTCTCCACCCCTACCAGTG
CAGCCCGCAAGGGCAGGAATTGGGAGGCCTAGGGTGGGCATGAAAGCTTGGAAGCACTGTCGTCTCTCAGACA
GGCGTCCTAAAGACCTCTAGGCTGGAAGCTTGGGCTTGCAAGTGATCCGGGACCGAGGGTGGTCTCTTGACAA
CCCCAGGAACCTTGGACCAAGGCAGAGCCAATCTTGCAAACCTGGCCATGGATGGGGAAGTGCCCGGTAGCCAGCAT
GAGCCACACTAGGAAAGAGGAGGAGGGTGCAGCCAACTTAAGGCACCGGCAAGTGTTGTCAGCACTGGAGGAGA
CCCCGCCAGTGGGGTGAGGCCAGCCAAGTCCCTGTGTTACGAATGGTGGGCCAAGGGGCTGTCTGCTAGGTCCCA
GTAGGACAGGCAGAGCTCCAGGCTGGCACCATGGTAGGCCTCCAGGGAAGAGCTGGGAGGCAGGAATGGCACAC
TGGGCAGGCTTGCCCATTCCTGGCCCTGAGAATGGAGCTGTAGCCTCATGGACAATAAATGGATGTGACACCAA
AAAAAAAAAAAA

1152/2777
FIGURE 1013

MRRCRWAALALGLLRLCLAQANFAPHFFDNGVGSTNGNMALFSLPEDTPVGSHVYTLNGTDPEGDPISYHISFDP
STRSVFSVDPTFGNITLVEELDREREDEIEAIIISISDGLNLVAEKVVILVTDANDEAPRFIQEPYVALVPEDIPA
GSIIFKVHAVDRDTGSGGSVITYFLQNLHSPFAVDRHSGVLRLOAGATLDYERSRTHYITVVAKDGGGRLHGADV
FSATTTVTNVNEDVQDMPVVFVGTPYYGYVYEDTLPGSEVLKVVAMDGDRGKPNRILYSLVNGNDGAFEINETSG
AISITQSPAQLQREVYELHVQVTEMSPAGSPAAQATVPVTIRIVDLNNHPPTFYGESGPQNRFEFSMNEHPPQGE
ILRGLKITVNDSDQGANAKFNLQLVGPRGIFRVVPQTVLNEAQVTIIVENSAAIDFEKSKVLTFFKLLAVEVNTPE
KFSSTADVVIQLLDTNDNVPKFDSLYYVARIPENAPGGSSVVAVTAVDPDTGPWGEVKYSTYGTGADLFLIHPST
GLIYTQPWASLDAAETARYNFYVKAEDMEGKYSVAEVFITLLDVNDHPPQFGKSVQKKTMLGTPVKIEAIDEDA
EEPNNLVDYSITHAEPANVFDINSHTGEIWLKNSIRSLDALHNITPGRDCLWSLEVQAKDRGSPSFSTALLKID
ITDAETLSRSPMAAFLIQTKDNPMKAVGVLAGTMAVVAITVLISTATFWRNKKSINKVLEPMRRVLRKRPSAPRT
IRIEWLKSSTKAATKFMLKEKPPNENCNNNSPESSLLPRAPALPPPPSVAPSTGAAQWTVPTVSGSLTPQPTQP
PPKPKTMGSPVQSTLISELKQKFEKKSVMHKNAYF

1153/2777
FIGURE 1014A

ATGAAAGTGATCATAGTCACTGTTATCTCCAATACTGTCTCAGAGTTGACTGTTGTACACAAGTGAAATTAGATF
AGGTACAGATTAAATTCTACTTAAAATTTGTTCTTTATTGATTCCTTTAGGTTTCTTTAAACCAAGCTCATGCTA
TTTAGTCAGAACATGACTTCTAGAATGGTCTTCCAGAGTCAGAATTCTCTGTTTACAAAGATAATTTCAAATGTA
GTATCCCTCTTTACATTCAGTGTTCACCAAATAACTCATTATAGCCAGAAGAGGGTATTGCTTCTTTTCATTGT
GGCACTAGATAGGGTCTATGTTTTTCACTATTTAGTATGTATACATTTCTCCATATAACAGTAATAGGCTTCAG
GCTTTGAAGTGCTAGAATAGTTTTAGAAAGAAATGTTACAGATGTATGTTTATAGTTTTAATCATTGCCCTCAGTGC
TTTCTTGTGGCAGCGTGACAGGTATAAGGAGAGGGGCACTGGAGATTGTATTTCTGATGTCTTGAATGTCAAGTG
TGAAAAGTAACCAAGATTGCTTTCAGCTTTGTGAGATCAACATCATGAATTTGTTTTTCATTTCCTCTGGTTGGA
AGTTTCCTAGGTTAGAAGCTGAGGTTTCAGTTACTTTAAATATGGAATTTGGGAACAGGGATTGAGGCTTCTAG
CACAGTAAATGTGACTGAATACCCTTTCTAAACTAAGTGGGGCACAATGATTTTTTTCTCCATTTTTTTTTT
ACATGACACTTTATTTCTTTACATGTTGACATGGCTTGTATTACATTCTAAATTTTCATCTGTTTCTGTAACTTT
AGCTGTGTCTATAACAGATAGAGCATCAGTCAAAGTGGAGTGGACAGGGAGAAAATGCTCTACTGGGAAGCACT
CTGGAATCTTCTGATTAAAGTCATTTGCAAAAGATTAATAGCCATAAGCCTTACTCTTAATGGATCTGCCATTTCA
GTTTCAATGGCTTTTGAGGAAAAAGGAGTCATTTAAGGAAGGAGATAGGAAGTGTAGGCCGATCCATCCACTTTT
CTTAGTCTCCCAATTTTAAGAGACCCTTTCTTGCACAAAATTTTTTGTAACTTTCCATAAGTAAAGAGGAAGGTA
ATGGAGCCGTAGAAATGTCAACCCATCAAAGACTAGTTTGTCTGTCTATTACAACAAGGCATTTAGGGAACATCT
TTCCTTAATTTTACTAATAGACCAACCAAGGAAGCCTTCTGAATCGCTAGTAAGATTGAGCTCTGGGTGATTCTT
CATTCTAATGGCTCATAGTGATTACAGTTTATGTTAATAATCACTCCTACTTCTGTCAACCTCCAGCAAGAGTA
AATTGATAGCAGGATAAAATTTAAAGTCTGATCTTAATGTCATAAATGTGACTAGAATATGGTACTAACTTTTTCG
GGTCTAGATAGCTGGAATGAGGCTTGCAAACAGTGTTATCTGGAGAGAGCTTGTCTGGTCTAACAACCTTTGTGTGA
TAATTTGGCATCTGATTAGAGAGCATGAGTCTGATAAATTTTATAATCCACACAGAGATCATGCTGTGGTTGGAC
ACATCATTTAATAATATTTAGCATGATATAATATTCATTTTCTCTACAGGAGCACAGACTCTTCTCATACTGG
ATTATTTTACCTTTGACAGTCATTTTCAATGACAGTAATTTTAAATAAAGCATCGTGTGCTTATAGAACCTGTG
CTTGAGTAAAAATAGTCTTCAAATAAAAAATAATGAAGTAAATTTTTACTTAGGCCATGCTTAATTGGAAGCATAG
AACTTAAATTGAGAAAAAATCCATATGATAGATTTTGTTTTTCTCATGCTTCCCTTTTGAATAATAGCAAATAA
TGCAGAGTAATGGTTCTAAGAGTTTCAGGGTAGATGAAGTCTGTAGGTTTTAGAAGTATAGAGTTGAAAAGAACCT
CCAAGAGGACTTATTTAATGAGTGAAATAAATGTCCTTAGATAGATATTGTCCCTAAACTCTTTTCTATTGAAAG
TTTATAGTATTGAAAATTTGATGATTATTAGTACCTAGTATAAATCAACATTCATCTGATGTTCTCTTTTATAGAT
AGCCAAGTTATAACTTTTTTGAAAAGACATTATTGGACTAAGTTAGTAGGTCAGCCTTTTCTTTGATAGTGTGT
ACTCTTATCTGTCAACCAACCTTCTCCACACCCTCTTCTCTTCATTTCAGTTGTGGACAGCAGTAATTTTTTCAGG
ACCTTTGCTTCTTAGAGGAAAATACATTTTCTTATTTTATATTTTAAAGATGTTTCTATTACATTATATATAG
CAAGAGATCTATTAAGGATCCAGAAAATCTTAACCTGTAGAGGATATGAGTTCCTCATCATAAGAATTAGTTTCC
TTGAGGGTTCTTTAGTATATTCTATTTACACAGTTTATGCATAAGTAAACTCTGTGGCCGATGTACATAAAAAAA
CCTATCACTTTTATGCTCATTCTCCTCCTAATTCAGTGTCTGGGTCATGAGATGTTTGGTTCATAGCTTCAAAA
ACTGTTCAAGAAGACTGATTTTCAGTTCTCTCTAIGTTGATCTTCCAGTTGAATCTGGAGTCTTCTGATTGTGGAA
AGGAGTAGCAGATCACATTATACTGAAAATTTGTCCTTTTCAATTGAGAAATAAAGGTTGACTGAGCTACCTAAAGT
CACTTTTCTTTGGACTGTAAGCCTTAGAGAGAACAAATAACCTTTGCTTTTCTTGAGGTAGTATTAGAAAACCTC
TAGTTCCCATTTGATAGGATAAACTTGTTTTTCTCGTTTCATGGTCTTTTTATAGAAAACAGTCACAAAATCTTGAC
ATTTGGCATCCCTGAAAAGCTCAAGTGGCCTTTTCAAGTAGGGTATCATGTAGTATTCTGCAGGTTTACAGTCAG
TATCCTGCAAGGAAAGGTGACAACTTCTGTGAAGTTAGGAAGAAATATTAGTAACCCACACACTGAAGTGAG
TTTTCCATTTTACCTTGTAGAAATTGTACTAGAGATAGAACAAATGAAATTAGTTTTCTTTTCCAGGTATATCCT
GTGAGATACCAGCACAGAGTATTTTCTCTGAGTTCTCTCAGGGTTAAAGCTCAGTGAGCTTTTCTTTTCTCTTG
GTAGTGTGGAACCATTTGTACCGTAGAAAGAATAGCTGGAATATGGAACCTCAATGTGGCAATACAGTAATAAA
CAGAAGGAATGAGTCAGTAGGATAATATATTCGAGTGATTTCTGTATATTTTCAGTTATAATGTTTTTTATATAGT
GTATATTTTCAGTTATTTTCAGTTATAATGTGTTTTAGAAATGTGGATTTAAGCCACCTTCTCACCTTTGCAACAGT
AGCTTTGTTAAACATTTTATTATGATCAAATAACAAGCCTGTTGCTTTTAAAGTAATCTAAGTATTAACAGAAGG
TAAGTCTTCAACTTCTCCCTGTTCTCACCTGGGCCAAGATCAATTTTCTAAATAAAAAATAGCTTTGTAATTTGT
CTCCAACAAAGAAATGGGAAATGGAAGGGAACACAAAACCTGTGGTCTGACAATACTAATCTACCCGTTTTCAA

1154/2777
FIGURE 1014B

TAAGAATAATTAACTTATAAAGTGATATACTGATTATTTTTGTGTTACTCTCCCTTTTTTTGTTTAAAGTCAA
ATTCCAGAAGTAAAAATCTTTATCATACTGTTTTCTCTTACTAAAAGTGAAGGGTAAAAATAGAAAGTTCAGCA
ACATCAGAAAATGTTGTATTTAAAATAATATGGAGAATAGGGGTTTTAAGTACATAAACCATATTGGCTTCCTTG
TAGGTTTACTTTTAGTATATAACATGAATATGTAGTGCTTCTTTTTACAATAATCAAAGTCATAGCTCCAAGATA
TTGACCTCTTTCTCAATCTATAACCTTTGTAGGCATGCATTTATACCAGCATGTTTTATAAATTATGAGTTTCTA
TCTGTGTCCATGAAGTCTTACTAGTTTTCACTTAACTTTTGTTGGGTTGTTAAGAAGAATTAAAGTGATTCATAA
CTTNN
NNNNNNNNNNNNNNNNNNNTTCAACATCACACATCACACATCACACAGTGGTTCATAACATCAGATGAAGAAGGAGG
TGAGTGATATGTTAAATGATCAGAACTTGGCATTACATTATTTCCAGGACCATTTCCCTACCAAAGCTGTGTAT
TTTTCAATTTCTTCATGGCACTGTGCTGTTAATTTCTGTTAACATTTGTGCTAAAATGGAGTGTAATTTTACATA
TAAGTGTTAGAATTTTAGCTATCTTAGTTGAAACACAAAAAGTTGTTACTGATCCAATAAAATTATCAAAGGCCA
CAAAAAAATCTATGTCGGGTGCGGAGAAAGAGGTAATGAAATGGCAGGAATTC

1155/2777
FIGURE 1015

ESDHSYCYLQYCLRVDCCCTQVKLD

1156/2777
FIGURE 1016

AAAAAAGAATCAAGCAGATGGCTTAAAGCTGGTTATAGGATTTCTCACATTCTTTTAGCATTATGCATGTAAC
TTAATTGTTTTAGAGCGTGTGCTGTTGTAACATCCCAGAGAAGAATGAAAAGGCACATGCTTTTATCCGTGACC
AGATTTTGTAGTCCAAAAAATGTATTTTTTGTGTGTTTACCACTGCAACTATTGCACCTCTCTATTTGAATTTA
CTGTGGACCATGTGTGGTGTCTCTATGCCCTTTGAAAGCAGTTTTTATAAAAAGAAAGCCCGGGTCTGCAGAGAA
TGAAAACCTGGTTGGAACTAAAGGTTTCATTGTGTGTTAAGTGCAATTAATACAAGTTATTGTGCTTTTCAAAAATGT
ACACGGAAATCTGGACAGTGCTCCACAGATTGATACATTAGCCTTTGCTTTTTCTCTTTCCGGATAACCTTGTA
CATATTGAAACCTTTTAAGGATGCCAAGAATGCATTATTCCACAAAAAACAGCAGACCAACATATAGAGTGTTT
AAAATAGCATTCTGTTGGGCAAAATTCAACTCTTGTGGTTCTAGGACTCACATCTGTTTCAGTTTTTCTCAGTTGT
ATATTGACCAGTGTTCTTTATTGCAAAAACATATACCCGATTTAGCAGTGTCAGCGTATTTTTTCTTCTCATCCT
GGAGCGTATTCAAGATCTTCCCAATACAAGAAAATTAATAAAAAATTTATATATAGGCAGCAGCAAAAAGAGCCAT
GTTCAAAATAGTCATTATGGGCTCAAATAGAAAGAAGACTTTTAAGTTTTAATCCAGTTTATCTGTTGAGTTCTG
TGAGCTACTGACCTCCTGAGACTGGCACTGTGTAAGTTTTAGTTGCCTACCCTAGCTCTTTTCTCGTACAATTTT
GCCAATACCAAGTTTCAATTTGTTTTTACAAAACATTATTCAAGCCACTAGAATTATCAAATATGACGCTATAGC
AGAGTAAATACTCTGATTAAGAGACCGGTACTAGCTAACTCCAAGAGATCGTTAGCAGCATCAGTCCACAAACAC
TTAGTGGCCCAATATATAGAGAGATAGAAAAGGTAGTTATAACTTGAAGCATGTATTTAATGCAAAATAGGCAC
GAAGGCACAGGTCTAAAATACTACATTGTCACCTGTAAGCTATACTTTTAAATATTTATTTTTTTTAAAGTATTT
TCTAGTCTTTTCTCTCTCTGTGGAATGGTGAAAGAGAGATGCCGTGTTTTGAAAGTAAGATGATGAAATGAATTT
TTAATTCAAGAAACATTGAGAAACATAGGAATTAACCTTAGAGAAATGATCTAATTTCCCTGTTACACAACT
TTACACTTTAATCTGATGATTGGATATTTTATTTTAGTGAAACATCATCTTGTTAGCTAACTTTAAAAATGGAT
GTAGAATGATTAAAGGTTGGTATGATTTTTTTTTTAAATGTATCAGTTTGAACCTAGAATATTGAATTAATATGCTG
TCTCAGTATTTTAAAGCAAAAAGGAATGGAGGAAAATTGCATCTTACACCATTTTATATGCAGTGTAATTT
TGCTGGGCTAGAAATGAGATAAAGATTATTTATTTTTGTTTCATGTCTTGTACTTTTCTATTAAATCATTTTATG
AAATCCAAAAAA

1157/2777
FIGURE 1017

MKRHMLLSVTRFLVQKNVFFCVETTATIAPLYLNLLWTMCGVSMPFESSFYKKKARVCRE

1158/2777
FIGURE 1018A

GGTCCTCCCCTTCTCCTCCCCTGCTCGCTGCAGACTCCCTCCTCACTGTGCTGCCGAGATCCACAGTCGGTTGT
GGCTCAGCCCCCTGTTGCAGGGGACAAGTGAGGGAGACTTCCCTGTCTTGCCCTGAGACGCCGCCCTCCCGGGTT
GGGGACAGAGCAGGTGCAGAGGCACTGCAGCTGCTCGGTTGCCAGCCTCCTGAATGATGCCAGCCAGTATGCT
CTAACCTCCAGCCTGGTTCTCCTGGTGCTGCTGAGCACAGCCAGAGCAGGCCCTTCTCTTACGGTCCAATGTG
ACACTGCCAGCCCCCGCCCCCTCCCCAGCCAGGGGGCCACACAGTGGGGCTGGAGTGGGAAGCCCCCTCTTCT
CAGCTTTACGAGCACACAGTGGAAGGAGGGGAGAAGCAGGTGGTATTACCCACCGCATTAACTGCCCCCTTCC
ACTGGCTGTGGCTGTCCCCAGGCACCGAGCCCCCAGTCCTTGCTTCAGAGGTACAGGCCCTGAGGGTCCGTCTA
GAGATCCTGGAGGAGTTGGTGAAGGGGCTCAAGGAACAGTGCAGTGGGGGATGTTGTCTGCTCTGCCAAGCT
GGCACAGGTGAGACAGATGTGCGGACCCCTCTGCAGTCTCCATGGTGTGTTGATCTGAGCCGCTGCACCTGTTCC
TGTGAGCCAGGCTGGGGTGGGCCCACCTGCTCAGACCCACAGATGCTGAGATCCCTCCCTCTTCCCCACCCCTCA
GCCTCGGGGTCTGCCCAGATGACTGCAATGATCAGGGTCGCTGTGTCCGTGGTTCGCTGCTGCTTTCCCGGC
TACACTGGCCCCAGCTGTGGCTGGCCATCCTGTCCCGGGGACTGCCAAGGCCGTGGGCGCTGCGTGACAGGGCGTG
TGTGTGTGCCGGGCAGGCTTCTCAGGCCCGACTGCAGCCAGCGCTCCTGCCCTCGAGGTTGCAGCCAGAGGGGA
CGCTGTGAGGGTGGGCGCTGCGTGTGTGACCCAGGCTACACTGGTGACGACTGTGGCATGAGGAGCTGCCCTCGC
GGTTGCAGTCAGAGGGGGCGCTGTGAGAATGGGCGCTGCGTGTGTAACCCCGGCTACACTGGCGAGGACTGTGGG
GTGAGGAGCTGCCCTCGGGGCTGCAGCCAGCGGGGACGCTGCAAGGACGGGCGCTGCGTGTGTGACCCCGGCTAC
ACTGGCGAGGACTGTGGTACGCGGAGCTGCCCCTGGGACTGTGGCGAGGGCGGGCGCTGCGTGGACGGCCGCTGC
GTGTGCTGGCCCGGTACACAGGCGAGGACTGCAGCACGCGGACATGTCCGAGGAGTGCAGGGGCGCGGGCGC
TGCGAGGACGGCGAATGCATTTGCGACACGGGCTACAGCGGGGACGACTGCGGCGTGCAGCTGCCCTGGCGAC
TGCAACCAAAGGGGCCGCTGCGAGGACGGCCGCTGCGTGTGCTGGCCGGGGTACACTGGAACCGATTGCGGCTCG
CGCGCCTGCCCACGCGACTGTAGAGGTCGCGGGCGCTGCGAGAACGGCGTGTGTGTTTGCAATGCGGGCTACAGC
GGCGAGGACTGCGGTGTGCGCAGCTGTCTGGGGACTGTGCTGGCCGGGGCCGCTGTGAGAGTGGCCGCTGCATG
TGTGGCCGGGGTACACAGGCCGGGACTGCGGCACGCGCGCTGTCTGGCGACTGTGCGGGGCGGGGCGCTGC
GTGGATGGCCGCTGCGTGTGCAACCCGGGCTTACCGGTGAGGACTGTGGGAGCCGTCGCTGTCCCGGGGACTGC
CGTGGGCACGGCCTTTGCGAGGATGGCGTGTGCGTGTGTGACGCAGGCTACTCAGGGGAAGACTGCAGCACGCGC
AGCTGCCCCGGGGGCTGCCGAGGCCGCGGCCAGTGCCTAGATGGGCGGTGTGTGTGCGAGGACGGCTACTCTGGC
GAGGATTGCGGTGTGAGGCAGTGCCGAATGACTGCAGCCAGCACGGCGTGTGCCAGGACGGTGTGTGCATCTGT
TGGGAAGGCTACGTGAGTGAGGACTGCAGCATCCGCACCTGCCCTCCAAGTCCACGGGAGGGGCGCTGTGAG
GAAGGGCGCTGCTGTGCGACCCAGGCTACACCGGCCCTACCTGTGCCACCCGCATGTGCCGGCTGACTGCCGG
GGACGTGGGCGGTGTGTGCAAGGAGTGTGCTGTGCCACGTGGGCTATGGCGGTGAGGACTGCGGGCAGGAAGAG
CCTCCAGCCAGCGCTGCCCTGGAGGCTGCGGGCCCCGGGAAGTGTGCCGGGCAGGCCAGTGTGTGTGTGTAGAG
GGCTTCCGAGGCCCTGACTGTGCCATCCAGACATGCCAGGGGACTGCCGTGGCCGAGGAGAGTGTACGATGGC
AGCTGTGTCTGCAAGATGGGTATGCTGGCGAAGACTGCGGAGAAGCACGGGTTCCAAGCTCTGCCTCAGCCTAT
GACCAGAGAGGACTGGCCCCCTGGACAGGAGTACCAGGTCACTGTCCGAGCCCTTCGAGGGACAGCTGGGGCCTT
CCTGCCTCCAAGACCATCACCACCATGATCGATGGGCCCCAGGACCTCCGAGTGGTGGCTGTGACACCGACAACA
CTGGAGCTTGGCTGGCTGCGTCCCCAGGCTGAGGTGGACCGATTGTGGTGTCTACGTGAGTCCGGCAACCAG
AGGGTGAGGCTGGAAGTGCCCCCTGAAGCAGACGGGACGCTGCTGACTGACCTGATGCCAGGCGTAGAATATGTG
GTGACTGTACAGCGGAGCGGGGCGGGCAGTCAGCTACCCAGCTTCTGTGAGGGCCAACACAGAGGAAAGGGAG
GAGGAGTCCCCGCCAGGCCAAGCCTGTCCCAGCCCCCACGGCGGCCTTGGGGCAACCTGACGGCCGAGCTGAGC
CGTTTCCGCGGCACGGTGCAGGACCTGGAGCGCCACCTGCGGGCTCACGGCTACCCACTGCGGGCCAACCAGACT
TACACGTGCGGTGGCGCGCCACATCCATGAATACTTGACGCGGCAGGTGCTGGGCAGTTCCGCGGATGGCGCGCTT
CTCGTGTCTCTCGACGGGCTCCGCGGCCAGTTTCGAGCGCGTGGTGTGCGCTGGCGGCCTCAGCCGCTGCAGAG
GGCCCCGGCGGTGAGCTGACTGTGCCGGGCACCACGCGCACCGTCAGCCTGCCCGACCTCAGGCCCCGACACC
TACCACGTGGAGGTCCACGGGGTGGGGCGGGGACAGCTTCAAGTCTTACGCTTCAACCTGCGCATG
TCGACGACGCAAGGGGCCAGGCTCCTCTCCTGCAGCAGCGCCCCAGGAGCTGGGAGAGTTGAGGGTGTGGGC
AGAGATGAGACAGGGCGCCTCCGTGTGGTCTGGACCGCCAGCCTGACACCTTTGCCTACTTCCAAGTGCAGATG
CGGGTGGCCGAGGGGCGGGGGCACATGAGGAAGTGTGCGAGGGGACGTCCGCCAGGCTCTGGTGCCTCCACCC
CCTCCTGGAACCCGATGAGCTGTCACTTCATGGGGTCCCTCCTGGGGGCAAGCCCTCTGACCCCATCATCTAC

1159/2777
FIGURE 1018B

CAAGGCATTATGGACAAGGATGAGGAGAAGCCTGGGAAGTCCTCAGGCCACCACGCCTGGGTGAGCTGACGGTG
ACAGACAGGACCTCCGACTCCTTGCTCCTGCGCTGGACGGTCCCCGAGGGCGAGTTTGACTCCTTCGTGATCCAG
TACAAAGACAGGGACGGGCAGCCCCAGGTGGTGCCCGTGGAAGGACCCAGCGCTCGGCCGTATCACCTCCCTG
GATCCTGGCCGCAAGTACAAATTTGTCCTGTATGGGTTTGTGGCAAGAAGAGGCATGGTCCGCTGGTGGCTGAA
GCCAAGATCTTGCCCTCAGAGTGACCCAAGTCCAGGGACTCCACCCACCTGGGAAACCTGTGGGTGACAGACCT
ACCCAGATTCACTGCACCTCTCCTGGACTGTCCCTGAGGGCCAGTTTGACACCTTCATGGTCCAGTACAGGGAC
AGGGATGGACGGCCCCAGGTGGTACCTGTGGAAGGGCCGAGCGTTCAATTTGTTGTCTCCTCACTGGACCCCTGAC
CACAAGTACAGATTCACTCTGTTTGAATTGCGAACAAGAAGCGGTATGGCCCCCTCACGGCCGATGGCACCCT
GCTCCAGAGAGGAAAGAGGAGCCCCCGCCCTGAGTTCTTGAGCAGCCCCCTCCTGGGGGAACTGACAGTGACC
GGCGTGACCCCAAGTCTTGCGTCTCTCATGGACAGTGGCCAGGGCCCCCTTCGACTCATTTCATGGTCCAGTAC
AAGGATGCACAGGGGCGAGCCCCAGGCAGTGCCCTGTTGCGGGGGATGAGAATGAGGTTACTGTCCCCGGCCTGGAT
CCCGACCGGAAGTATAAGATGAACCTCTACGGGCTTCGTGGCAGGCAGCGTGTGGGGCCCCGAGTCTGTGGTGGCC
AAGACTGCTCCTCAGGAGGATGTGGACGAGACCCCAAGCCCCACAGAACTGGGCACGGAGGCCCCGGAGTCCCCC
GAGGAGCCGCTCCTGGGGGAGCTGACAGTGACAGGATCCTCCCTGATTGCTGAGCCTCTTCTGGACCGTCCCC
CAGGGCAGCTTCGACTCTTTCACCGTGACGTACAAGGACAGGGATGGGCGGCCCCGGGCGGTGCGTGTGGGGGC
AAGGAGAGTGAGGTACCCGTGGGAGGCCCTAGAGCCCGGGCACAAGTACAAGATGCACCTGTACGGCCTCCACGAG
GGGCAGCGCGTGGGCCCCGTGTCGCCGTGGGCGTGACAGCCCCACAACAAGAAGAGACCCCTCCAGCCACTGAG
TCCCCGCTGGAGCCACGCCTAGGAGAGCTGACAGTGACAGATGTGACCCCCAACTCTGTGGGCCTCTCCTGGACA
GTCCCCGAGGGCCAGTTTGACTCCTTCATAGTCCAGTACAAGGACAAGGACGGGCAGCCCCAGGTGGTGGCCGTG
GCGGCAGACCAGCGAGAGGTACAGTCTACAACCTGGAGCCTGAGAGAAAATATAAGATGAACATGTATGGACTA
CATGATGGGCAACGCATGGGCCCCCTGTCTGTGGTTCATCGTGACGGCCCCAGCCACAGAGGCCTCCAAGCCTCCC
CTGGAGCCACGCCTAGGGGAGCTGACAGTGACGGATATAACCCCTGACTCTGTGGGCCTCTCATGGACAGTCCCT
GAGGGTGAATTCGACTCCTTTGTGGTTTCAAGTACAAGGACAGGGACGGGCAGCCCCAGGTGGTGGCCGTGGCTGCA
GATCAGCGGGAGGTCACTATCCCTGACCTGGAACCTCCCGCAAGTACAAGTTCTGCTCTTTGGGATCCAGGAT
GGGAAACGACGCAGCCCAGTCTCTGTGGAGGCAAAGACGGTTGCCCGAGGTGACGCCAGCCAGGGGCCCCACCC
CGCCTTGGGGGAGCTGTGGGTGACAGACCCCAACCCAGACTCACTGCGCCTCTCCTGGACGGTTCTGAGGGCCAG
TTGACTCTTTTGTGGTCCAGTTCAAGGACAAAGACGGGCCCCAGGTGGTGGCCGTGGAGGGCCATGAGCGCTCT
GTCACTGTACCCCTCTGGATGCCGGCCGCAAGTACAGATTCTCTCTATGGCCTCCTGGGCAAGAAGCGCCAT
GGCCCTCTCACTGCCGACGGCACCACGGAAGCCCGGAGTGCTATGGATGATACTGGAACAAAGCGTCCCCAAAA
CCCCGTCTGGGGGAGGAGCTGCAGGTGACCACCGTGACCCAGAACTCCGTGGGCCTCTCCTGGACAGTCCCTGAG
GGCCAGTTTGACTCCTTTGTGGTCCAGTACAAGACAGGGACGGGCAGCCCCAGGTGGTGGCCGTGGAGGGCAGC
CTCAGGGAGGTGACGCTGCCGGGCTGGACCTGCCCACAGGTACAAGCTGCTGCTCTACGGGCTGCACCACGGC
AAGCGTGTGGGCCCCATCTCGGCCGTGCCATTACTGCCGGCAGGGAAGAAACGAAACTGAGACCACGGCCCCG
ACCCCTCCAGCGCCTGAGCCCCACCTCGGGGAGTTGACAGTGGAGGAGGCCACGTACACACCCTGCATCTCTCC
TGGATGGTGAAGTACTGAGGGAGAATTTGACTCCTTCGAAATCCAGTACACAGATAGAGACGGGCAACTCCAAATGGTC
CGCATAGGAGGTGACCGGAATGACATCACCCCTCTCTGGCCTGGAATCCGACCACAGATACCTGGTGACCCCTGTAT
GGTTTCAGTGATGGGAAGCATGTAGGTCCCTGTCCATGTGAGGCCCTGACAGTCCCGGAGGAGGAGAAGCCTTCA
GAACCTCCCACCGCAACCCCCGAGCCCCCATCAAGCCTCGCCTGGGGGAGCTGACCGTGACAGATGCCACCCCT
GACTCCCTCAGCCTGTCTGGACAGTTCCCGAGGGACAGTTTGACCACTTCTGGTCCAGTACAGGAATGGAGAT
GGGCAGCCCCAAGGCAGTGAGGGTGCCAGGGCACGAGGAAGGGGTACCATCTCGGGCCTGGAGCCAGACCATAAA
TACAAGATGAACCTGTACGGCTTCCACGGTGGCCAGCGCATGGGCCCTGTGTCTGTCTGCTCGGGGTGACAGAACCC
AGCATGGAGGCCCCGAGCCCCGTGAGGAGCCGCTCCTGGGGGAGCTAACAGTGACAGGATCCTCCCTGACTCG
CTGAGCCTCTCCTGGACCGTCCCCCAGGGCCGCTTCGACTCCTTCACCGTGACGTACAAGGACAGGGACGGGCGG
CCCCAGGTGGTGGTGTGGGGGCGAGGAGGTGAAGTACCCTGGGGGCGCTGGAGCCTGGGCGCAAGTACAAG
ATGCACCTGTACGGCCTCCACGAGGGGCGGCGCGTGGGCCAGTGTCTGCTGTGGGCGTCACGGCCCCGAAGAG
GAGTCCCCTGATGCTCCTCTTGCAAAGCTGCGCCTAGGGCAGATGACAGTGAGAGACATACCTCCGACTCCCTC
AGCCTCTCCTGGACAGTCCCCGAGGGCCAGTTTGACCATTCTTGGTCCAGTTTAAGAATGGGGACGGGCAGCCC
AAGGCGGTGCGGGTGCCGGGACACGAGGATGGGGTACCATCTCGGGCCTGGAGCCAGACCACAAGTACAAGATG

1160/2777
FIGURE 1018C

AACCTGTACGGCTTCCACGGTGGCCAGCGCGTGGGCCCCGTGTCTGCTGTTGGTTTAACTGCCTCGACAGAACCT
CCCACCCCTGAACCCCCATCAAGCCTCGCCTGGAGGAGCTGACCGTGACAGATGCGACCCCTGACTCCCTCAGC
CTGTCTGGACGGTTCCCGAGGGACAGTTTGACCACTTCCTGGTCCAGTACAAGAATGGGGATGGGCAGCCCCAAG
GCAACACGGGTGCCAGGACATGAGGACAGGGTCACCATCTCCGGCCTGGAGCCAGACAACAAGTACAAGATGAAC
CTGTACGGCTTCCACGGTGGCCAGCGTGTGGGCCCCGTGTCTGCCATCGGGGTGACAGAGGAAGAGACCCCCAGC
CCCACAGAACCCAGCATGGAGGCCCCGGAGCCCCCTGAGGAGCCGCTCCTGGGGGAGCTAACAGTGACAGGATCC
TCCCCTGACTCGCTGAGCCTCTCCTGGACCGTCCCCCAGGGCCGCTTCGACTCCTTCACCGTGACAGTACAAGGAC
AGGGACGGGCGGCCCCAGGTGGTGCCTGTGGGGGCGAGGAGAGCGAGGTACCGTGGGGGGCCTGGAGCCTGGG
CGCAAATACAAGATGCACCTGTATGGCCTCCACGAGGGGCGGCGCGTGGGCCCCGTGTCCACCGTGGGCGTGACT
GCCCCACAAGAGGATGTGGACGAGACCCCCAGCCCTACAGAACCAGGCACAGAGGCCCCAGAGCCCCCGAGGAG
CCTCTCCTGGGGGAGCTGACAGTGACAGGATCCTCCCTGACTCGCTGAGCCTTTCTGGACCGTCCCCCAGGGC
CGCTTTGACTCCTTCACCGTGACAGTACAAGGACAGGGACGGGCGGCCCCAGGCGGTGCGTGTGGGGGGCCAGGAG
AGCAAGGTCACTGTGAGGGGCGCTGGAGCCTGGGCGCAAGTACAAGATGCACCTGTACGGCCTCCACGAGGGGCGG
CGCCTGGGCCCCGTGTCTGCCGTGGGCGTACAGAGGATGAAGCCGAGACCACCAAGCAGTGCCCTACCATGACC
CCTGAGCCCCCATCAAGCCTCGCCTGGGGGAGCTGACCATGACAGATGCCACCCCTGACTCCCTCAGCCTGTCC
TGGACGGTTCCCGAGGGCCAGTTTGACCACTTCCTGGTCCAGTACAGGAATGGGGATGGGCAGCCCCAAGGCGGTG
CGGGTGCCGGGGCACGAGGACGGGGTCACCATCTCAGGCCTGGAGCCAGACCATAAATACAAGATGAACCTGTAC
GGCTTCCACGGTGGCCAGCGCGTGGGCCCCATCTCTGTCTATTGGGGTGACGGAGGAAGAGACCCCCAGCCCCACG
GAACTCAGCACTGAGGCCCCGGGAGCCCCCTGAGGAGCCGCTCCTGGGGGAGCTGACAGTGACAGGATCCTCCCT
GACTCGCTGAGCCTCTCCTGGACCATCCCCCAGGGCCACTTCGACTCCTTCACCGTGACAGTACAAGGACAGGGAC
GGGCGGCCCCAGGTGATGCGTGTGACGGGCGAGGAGAGCGAGGTACCGTGGGGGGCCTGGAGCCCCGGGCGCAA
TACAAGATGCACCTGTACGGCCTCCACGAGGGGCGGCGTGTGGGCCCCGTGTCCACCGTGGGTGTGACAGTGCCC
ACCACAACCCCTGAGCCCCCAACAAGCCTCGCCTCGGGGAGCTGACCGTGACAGATGCCACCCCTGACTCCCTC
AGCCTGTCTGGATGGTCCCCGAGGGCCAGTTTGACCACTTCCTGGTCCAGTACAGGAATGGGGATGGGCAGCCC
AAGGTGGTGCGGGTGCCGGGGCACGAGGACGGGTACCATCTCAGGCCTGGAGCCAGACCACAAGTACAAGATG
AACCTGTACGGCTTCCACGGTGGCCAGCGCGTGGGCCCCATCTCTGTCTATTGGGGTGACAGAGGAAGAACTCCC
GCCCCACAGAACCCAGCACGGAGGCCCCGGAGCCCCCTGAGGAGCCGCTCCTGGGGGAGCTGACAGTGACAGGA
TCCTCCCCTGACTCGCTGAGCCTCTCCTGGACCATCCCCCAGGGCCGCTTCGACTCCTTCACTGTGCAGTACAAG
GACAGGGACGGGCGGCCCCAGGTGGTGCCTGTGACGGGCGAGGAGAGCGAGGTACCGTGGGGGGCCTGGAGCCC
GGGTGCAAATACAAGATGCACCTGTACGGCCTCCACGAGGGGCGAGCGTGGGCCCAGTGTCCGCTGTGGGTGTG
ACAGCTCCAAAGGATGAAGCCGAGACCACCAAGCAGTGCCCTACCATGACCCCTGAGCCCCCATCAAGCCTCGC
CTGGGGGAGCTGACCGTGACAGATGCCACCCCGACTCCCTCAGCCTGTCTGGATGGTTCCCGAGGGCCAGTTT
GACCACTTCCTGGTCCAGTACAGGAATGGGGATGGGCAGCCCAAGGCGGTGCGGGTGCCGGGGCACGAGGACGGG
GTCACCATCTCAGGCCTGGAGCCAGACCATAAATACAAGATGAACCTGTACGGCTTCCACGGTGGCCAGCGCGTA
GGCCCTGTGTCTGCCATTGGGGTGACGGAGGAAGAGACCCCCAGCCCCACAGAACCCAGCACTGAGGCCCCGGAG
GCCCCTGAGGAGCCGCTCCTGGGGGAGTTGACAGTGACAGGATCCTCCCTGACTCGCTGAGCCTCTCCTGGACC
GTCCCCCAGGGCCGCTTCGACTCCTTCACCGTGACAGTACAAGGACAGGGACGGGCGAGCCCCAGGTGGTGCCTGTG
AGGGGCGAGGAGAGCGAGGTACCGTGGGGGGCCTGGAGCCGGGCGCAAATACAAGATGCATCTGTACGGCCTC
CACGAGGGGCGAGCGCGTGGGCCCCAGTGTCACCGTGGGCATCACGGCGCCCTGCCACACCACTGCCGGTGGAG
CCCCGCTGGGGGAGCTGGCGGTGGCGGCCGTGACCTCGGACTCAGTGGGCCTCTCATGGACGGTGGCCAGGGC
CCCTTTGACTCCTTCCTGGTACAGTACAGGGACGCGCAGGGGCGAGCCCCAGGCAGTGCCCTGTGAGCGGAGACCTC
CGAGCGGTGCGCGTCTCGGGGCTGGACCCGGGCCGCAAGTACAAGTTCTGCTCTTTGGACTCCAGAATGGGAAA
CGCCACGGCCCAGTCCCTGTGGAGGCCAGGACCGCCCCAGACACCAACCGTCTCCCCGCTGGGGGAGCTGACT
GTGACAGATGCGACCCCTGACTCCGTGGGCCTCTCGTGGACGGTCCCTGAGGGCGAATTTCGACTCCTTCGTGGTC
CAGTACAAGGATAAGGATGGTCCGCTCCAGGTGGTGCCGTGGCAGCCAACCAGCGGGAGGTACAGTCCAGGGC
CTGGAGCCCAGTAGGAAATACAGGTTCTGTCTATGGTCTGTGAGGCAGGAACGACTGGGCCCCATCTCTGCT
GACAGCACACAGCTCCCCTGAGAGAAGGAGCTACCTCCCCACCTGGGGGAAGTACCGTGGCTGAGGAGACCTCC
AGCTCTCTGCGCCTGTCTGACGGTAGCCCAGGGCCCCCTTTGACTCCTTCGTGGTCCAGTACAGGGACACGGAC

1161/2777
FIGURE 1018D

GGGCAGCCCAGGGCAGTGCCTGTGGCCGACAGCCAGCGCACAGTCACCGTAGAGGACCTGGAGCCTGGCAAGAAA
TACAAGTTTCTGCTCTACGGGCTCCTTGGGGAAAGCGCCTGGGCCCGGTCTCTGCCCTGGGAATGACAGCCCCA
GAAGAGGACACACCAGCCCCAGAGTTAGCCCCAGAGGCCCTGAGCCTCCTGAAGAGCCCCGCTAGGAGTGCTG
ACCGTGACCGACACAACCCAGACTCCATGCGCCTCTCGTGAGCGTGGCCCAGGGCCCTTTGATTCCCTTCGTG
GTCCAGTATGAGGACACGAACGGGCAGCCCCAGGCCTTGCTCGTGACGGCGACCAGAGCAAGATCCTCATCTCA
GGCCTGGAGCCCAGCACCCTTACAGGTTCTCTCTATGGCCTCCATGAAGGGAAGCGCCTGGGGCCCTCTCA
GCTGAGGGCACCACAGGGCTGGCTCCTGCTGGTCAGACCTCAGAGGAGTCAAGGCCCGCCTGTCCCAGCTGTCT
GTGACTGACGTGACCACAGTTCACTGAGGCTCAACTGGGAGGCCCCACCGGGGGCCTTCGACTCCTTCCTGCTC
CGCTTTGGGGTTCCATACCAAGCACTCTGGAGCCGCATCCGCGTCCACTGCTGCAGCGCGAGCTGATGGTGCCG
GGGACACGGCACTCGGCCGTGCTCCGGGACCTGCGTTCCGGGACTCTGTACAGCCTGACACTGTATGGGCTGCGA
GGACCCCAACAAGGCCGACAGCATCCAGGGAACCGCCCGCACCCTCAGCCCAGTTCTGGAGAGCCCCCGTGACCTC
CAATTCAGTGAAATCAGGGAGACCTCAGCCAAGGTCAACTGGATGCCCCACCATCCCGGGCGGACAGCTTCAAA
GTCTCCTACCAGCTGGCGGACGGAGGGGAGCCTCAGAGTGTGCAGGTGGATGGCCAGGCCCCGACCCAGAACTC
CAGGGGCTGATCCCAGGCGCTCGCTATGAGGTGACCGTGGTCTCGGTCCGAGGCTTTGAGGAGAGTGAGCCTCTC
ACAGGCTTCCTACACGGTTCTTGACGGTCCCACACAGTTGCGTGCACTGAACTTGACCGAGGGATTGCGCCGTG
CTGCACTGGAAGCCCCCCCAGAATCCTGTGGACACCTATGACGTCCAGGTACAGCCCCTGGGGCCCCGCCTCTG
CAGGCGGAGACCCAGGCAGCGCGGTGGACTACCCCTGCATGACCTTGTCTCCACACCAACTACACCGCCACA
GTGCGTGGCCTGCGGGGCCCCAACCTCACTTCCCCAGCCAGCATCACCTTACCACAGGGCTAGAGGCCCTCGG
GACTTGGAGGCCAAGGAAGTGACCCCCCGCACCGCCCTGCTCACTTGGACTGAGCCCCAGTCCGGCCCCGAGGC
TACCTGCTCAGCTTCCACACCCCTGGTGGACAGAACCAGGAGATCCTGCTCCCAGGAGGGATCACATCTCACCAG
CTCCTTGGCCTCTTTCCCTCCACCTCCTACAATGCACGGCTCCAGGCCATGTGGGGCCAGAGCCTCCTGCCGCC
GTGTCCACCTCTTTACACAGGGTGGGCTGCGGATCCCCCTCCCCAGGGACTGCGGGGAGGAGATGCAGAACGGA
GCCGGTGCTCCAGGACCAGCACCATCTTCTCAACGGCAACCGCGAGCGGCCCTGAACGTGTTTTGCGACATG
GAGACTGATGGGGGCGGCTGGCTGGTGTTCAGCGCCGATGGATGGACAGACAGACTTCTGGAGGGACTGGGAG
GACTATGCCCATGGTTTTGGGAACATCTCTGGAGAGTTCTGGCTGGGCAATGAGGCCCTGCACAGCCTGACACAG
GCAGGTGACTACTCCATGCGCGTGGACCTGCGGGCTGGGGACGAGGCTGTGTTGCGCCAGTACGACTCCTTCCAC
GTAGACTCGGCTGCGGAGTACTACCGCCTCCACTTGGAGGGCTACCACGGCACCGCAGGGGACTCCATGAGCTAC
CACAGCGGCAGTGTCTTCTCTGCCCCTGATCGGGACCCCAACAGCTTGCTCATCTCCTGCGCTGTCTCCTACCGA
GGGGCCTGGTGGTACAGGAAGTCCACTACGCCAACCTCAACGGGCTCTACGGGAGCACAGTGGACCATCAGGGA
GTGAGCTGGTACCACTGGAAGGGCTTCGAGTTCTCGGTGCCCTTACGGAAATGAAGCTGAGACCAAGAACTTT
CGCTCCCCAGCGGGGGGAGGCTGAGCTGCTGCCACCTCTCTCGCACCCAGTATGACTGCCGAGCACTGAGGGG
TCGCCCCGAGAGAAGAGCCAGGGTCTTACCACCCAGCGCTGGAGGAAGCCTTCTCTGCCAGCGATCTCGCAG
CACTGTGTTTACAGGGGGGAGGGGAGGGGTTCTGTACAGGAGCAATAAAGGAGAACTGAGGTACCCGG

1162/2777
FIGURE 1019

MMPAQYALTSSLVLLVLLSTARAGPFSSRSNVTLPAPRPPPPQPGGHTVGAGVGSPSSQLYEHTVEGGEKQVVFTH
RINLPPSTGCGCPPGTEPPVLASEVQALRVRLIILEELVKGLKEQCTGGCCPASAQAGTGQTDVRTLCSLHGVFD
LSRCTCSCEPGWGGPTCSDPTDAEIPSSPPSASGSCPDNDQGRGRCVRCVCFPGYTGPSCGWPSCPGDCQGR
GRCVQGVVCVCRAGFSGPDCSQRSCPRGCSQRGRCEGGRCVCDPGYTGDGCMRSCPRGCSQRGRCENGRCVNCNG
YTGEDCGVRSCPRGCSQRGRCKDGRVCVDPGYTGEDCGTRSCPDWDCGEGGRCVDGRVCVWPGYTGEDCSTRICPR
DCRGRGRCEDEGECICDTGYSGDDCGVRSCPGDCNQGRCEDGRVCVWPGYTGTDCGSRACPRDCRGRGRCENGVC
VCNAGYSGEDCGVRSCPGDCRGRGRCESGRCMCWPGYTGRDCGTRACPGDCRGRGRCDGRVCVNCNGFTGEDCGS
RRCPGDCRGHGLCEDGVCVCDAGYSGEDCSTRSCPGGCRGRGQCLDGRVCEDGYSGEDCGVRQCPNDCSQHGV
QDGVICWEGYVSEDCSIRTCPSNCHGRGRCEEGRCCLDPGYTGPTCATRMCPADCRGRGRCVQGVCLCHVGYGG
EDCGQEEPPASACPGGCGPRELCRAGQCVCVEGFRGPDCAIQTCPGDCRGRGECHDGSVCCKDGYAGEDCGEARV
PSSASAYDQRLAPGQEYQVTVRALRGTSWGLPASKTITTMIDGPQDLRVAVTPTTLELGLWRPQAEVDRFVVS
YVSAGNQVRLEVPPEADGTLTDLMPGVEYVTVTAERGRAVSYPASVRANTEEREESPPRPSLSQPPRRPWG
NLTAELSRFRGTVDLERHLRAHGYPLRANQTYTSVARHIHEYLRQVLGSSADGALLVSLDGLRGQFERVVLRW
RPQPPAEGPGGELTVPGTTRTVSLPDLRPGTTYHVEVHGVRAGQTSKSYAFITTTGPSTTQGAQAPLLQQRPOEL
GELRVLGRDETGRLRVWTAQPDTFAYFQLRMVPEGPGAHEEVLPGDVRQALVPPPPPGTPYELSLHGVPPGGK
PSDPIIYQGIMDKDEEKP GKSSGPPRLGELTVTDRTSDSLLLRTVPEGEFDSFVIQYKDRDGQPQVVPVEGPQR
SAVITSLDPGRKYKFVLYGFVGKKRHGPLVAEAKILPQSDPSPGTPPHLGNLWVTDPTPDSLHLSWTVPEGQFDT
FMVQYRDRDGRPQVVPVEGPERSFVVSLLDPDHKYRFTLFGIANKKRYGPLTADGTTAPERKEEPPRPEFLEQPL
LGELTVTGVTDPDSLRLSWTVAQGPFDSPMVQYKDAQGQPQAVPVAGDENEVTVPGLDPDRKYKMPLYGLRGRQV
GPESVVAKTAPQEDVDETPSPTELGTAEPESEEPLLGELTVTGSSPDSLFLWTVPQGSFDSFTVQYKDRDGRP
RAVRVGGKESEVTVGLEPGHKYKMPLYGLHEGQRVGPVSAVGVTAPQCEETPPATESPLEPRLGELTVTDVTPN
SVGLSWTVPEGQFDSFIVQYKDKDGQPQVVPVAADQREVTVYNLEPERKYKMPLYGLHDGQRMGPLSVVIVTAPA
TEASKPPLEPRLGELTVTDITPDSVGLSWTVPEGEFDSFVVQYKDRDGQPQVVPVAADQREVTIPDLEPSRKYKF
LLFGIQDGKRRSPVSVEAKTVARGDASPGAPPRLGELWVTDPTPDSLRLSWTVPEGQFDSFVVQFKDKDGQPQVVP
VEGHERSVTVTPLDAGRKYRFLLYGLLGKKRHGPLTADGTTTEARSAMDDTGTKRPPKPRLGEEQLQVTTVTQNSVG
LSWTVPEGQFDSFVVQYKDRDGQPQVVPVEGSLREVSVPGLDPAHRYKLLLYGLHHGKRVGPISAVAITAGREET
ETETTAPTPPAPEPHLGELTVEEATSHTLHLSWMVTEGEFDSFEIQYTDR

1163/2777
FIGURE 1020

GGCACGAGGGAGGTCTGCATGAAGGGGATCCCCACATCGCAGCCTACCAGAAGGAACTGGCTCATTCCCAGCCG
GCGGTGCAGCCCCGGCTCAAGCTGCTCCTGATGGGGCATAAGGCTGCAGGAAAGACTTTGCTGCGCCACTGCCTC
ACCGAGGAGAGAGTGGAGGGATGCCAGGAGGAGGGGACAAGGAGAAGTGCTACCCACCGTCACCTCCCCCTGTG
AGCAAGGGCATCGAGGTGACCAGCTGGACGGCCGATGCCTCCCGGGGCTGCGGTTTCATCGTGTATGACTTAGCT
GGGGATGAAAGTTATGAGGTGATCCAGCCCTTCTTCTGTCCCCAGGGGCCCTATACGTGCTGGTGGTCAACTTG
GCCACCTATGAGCCTCGCCACTTTCTTACCACCGTGGGCTCCTTCTTGCATCGGGTCGGGGCGAGAGTGCCCCAC
GCGGTGGTGTGCATCGTGGGCACCCACGCAGACCTGTGCGGAGAGCGTGAGCTGGAGGAGAAATGTCTGGACATT
CACCGCCAGATCGCCCTGCAGGAGAAGCACGACGCGGAGGGACTGAGCCGCTTGGCCAAGGTGGTGGACGAGGCA
CTGGCCCCGGGACTTCGAGCTGCGCTCTGCCAGCCCCACGCAGCCTACTATGGCGTTTCGGACAAGAACCCTTCGA
CGGCGCAAGGCCCATTTTCAATACCTGCTCAACCACCGGCTGCAGATCCTCTCCCCCGTGTTCCTGTTAGCTGC
AGGGACCCGCGCCACTTACGACGCCTTCGGGACAAGTTGCTGTGAGTTGCTGAGCACCGAGAGATCTTCCCCAAC
TTACACAGAGTACTGCCTCGATCCTGGCAGGTGCTGGAGGAACTGCATTTCAGCCACCTCAGGCCCAGCGACTG
TGGCTAAGCTGGTGGGACTCGGCGCGCTTGGGCCTGCAGGCGGGTCTGACCGAGGACCGACTGCAGAGTGCCCTC
TCCTACCTGCATGAGAGCGGCAAGCTACTCTACTTTGAGGACAGTCCGGCTCTCAAGGAGCACGTCTTCCACAAC
CTCACCCGCCTCATCGACATCCTCAATGTCTTCTTCCAGAGGGATCCCTCTTTGCTGCTGCATAAGCTGCTCCTA
GGGACCAGTGGAGAGGGCAAGGCGGAGGGGAAAAGCTCCCCGCCCATGGCGCGGTCCACCCCCAGCCAGGAACTG
CTCCGGGGCCACCCAGCTCCATCAGTATGTGGAGGGCTTTCTGTTGCATGGGCTCTTGCCAGCTCATGTATTGCGG
TTGCTGCTTAAGCCTCATGTCCAGGCCCCAGCAGGACTTGCACTGTTGCTGGAGCTGCTGGAGAAGATGGGACTC
TGTTACTGCCTCAATAAACCCAAAGGGCAAGCCTTTGAATGGGTCCACAGCTTGGTACAAGTTCCCATGCTATGTG
CAGAACGAGGTGCCCCATGCAGAAGCCTGGATTAATGGGACCAACCTAGCTGGGCAGTCTTTTGTGGCTGAGCAG
TTGCAGATTGAATATAGCTTTTCTTTTACTTTTCCACCTGGGTGTTTGCACGCTACAGTGTCCAGATCAACAGC
CATGTGGTGCACAGGTGCGATGGTAAATTTAGATCTTTGCCTATAGAGGGAAAGTTCTGTGGTTGTGAGTTAC
AGACCTGCCAGGGGAGTCTGCAGCCAGACACCCTGTCCATTGCTAGCCATGCATCATTACCAAATATATGGACC
GCATGGCAAGCCATAACCCCTTGGTGGAGGAACTGAATGTCTACTTCAGGAATGGCCTGGACTGCACTACACC
GTGCACATTCTCTGTTCTAAGTGCCTTAAGAGAGGATCGCCCAATCCACATGCTTTTCCAGGGGAGTTGCTGAGT
CAGCCCAGACCGGAAGGAGTGGCAGAGATCATTTGCCCAAGAACGGCAGCGAGCGAGTAAATGTTGCCTTGGTT
TACCCACCCACGCCGACTGTGATCAGCCCCTGTCCAAGAAGAATGTTGGTGAAAAGCACAGAAACCAGTGACGT
TTGTGGCTGTGGAATTTCCATGGAGAAAAGAGAGCATCTGAACACCTGGACCATCTTTTGCACCTGGCAGACCTT
CTGCACTCACCCACGCGTGTCTGTGAACTTGAGTGACAACGCGTGCTTGAGGGTGCTTTTGGATGACTGGGG
AAGAGGTGGGGAGGGGGTGGTGGGGGGAAGCATGGACGAGAACATGGAGCAAATGTTTTACAACCTGAACCTCAG
AACTGTGATCCTCCAAGGAGCGCGCTACTTGAAGAAAAAAAAAAAAAAAAAAAAA

1164/2777
FIGURE 1021

GCGGCCGCCCAACATCAGAATGGTATAGGCCAGTAGACCCCCGGTCACCCTGAGGCTGGTGGTCCCTGCTAGTC
AGTGTGGCTCTCTCATTGGAAAAGGTGGATGCAAGATCAAGGAAATACGAGAGAGTACAGGGGCTCAGGTCCAGG
TGGCAGGGGATATGCTACCCAACTCAACTGAGCGGGCCATCACTATTGCTGGCATTCCACAATCCATCATTGAGT
GTGTCAAACAGATCTGCGTGGTCATGTTGGGAGACTCTCTCCAGTCCCCCGAAGGGCGTGACCATCCCGTACC
GGCCCAAGCCGTCCAGCTCTCCGGTCATCTTTGCAGGTGGTCAGGACAGGTACAGCACAGGCAGCGACAGTGCGA
GCTTTCCCCACACCACCCCGTCCATGTGCCTCAACCCTGACCTGGAGGGACCACCTCTAGAGGCCTATACCATT
AAGGACAGTATGCCATTCCACAGCCAGATTTGACCAAGCTGCACCAGTTGGCAATGCAACAGTCTCATTTTCCCA
TGACGCATGGCAACACCGGATTCACTGGTATGGATACCTCAGTGTATTTCTGTAAAGGTGTAGTGCAAGAGAGA
GGCCAGTCCCAAGGTCTCAGCTTGACATCTGTTTAAACAAACTTCGTTATCCAGCATCCTGCTGGTTTAAACTT
GCCTGTCTACTATGGCTAAGCCCAAGGAGGTAATGTGTTTGTAAACGTGGTTTTTCATTTGGGGTCAGTTATTCTA
AAAGAAAAAAGCCCTGGAAGGTTTGGGGGTGAGGTTTGGGGATGCTTGTTCAGGCAAAGGGTAGGCTGATATT
TCTTTGAGCCCATCCTGACTGCTGCCCCCTTGATCTGATCAGCACCCCTTTCTCTCCACCAGCAATTCACAGGC
TTGGGTAGAGACCATCCATTTGTGCCAAATTGTGTAGTGTTTTTTTTGTTTTTGTTTTTTATTTTGTTC
GTTTTTGGGGCTTTTCTGTATAAGGAATAACTTGTCGATAGGGTTAGGATGAGACCACCAAACTCATTTTCACT
TGTATCTTAACAGGCATTGAATCCAGCTCTCCAGAGGTGAAAGGCTATTGGGGTAATGATTAAAAAATAAAT
CTGTAGTATTCTACGGTTATATTAATAAACGGGGGGGAGTCTGGTTTCACTGCCCATGAACCATAACCAGCAACAT
GCACATGGCAGAGAGGAGCTGAGAGAGCAAAGGGGTGGGCCTGGAGCCCCGAGGGTCCCTTGATGGATCTGGCC
AACCCCTTCTAAAAATGATGAGACAGCAGCCATAGCTGAGATCAGGACTAAGCTTGAGTGTTAGCCAGCTGGCC
TGGTTCAGTCCAGGTGTTGTTAAAGATGGGTACGGGTATTTGCTGATGGGATTTTTTTTTCTTTCTTTTCTTTG
GAAAACAAAATGAAAGCCAGAACAAAATTATTGAACAAAAGACAGGGACTAAATCTGGAGAAATGAAGTCCCTC
ACCTGACTGCCATTTTCACTTCTATCTGACCTTCCAGTCTAGCAGGTTTGGATGCATCTGCTCAGACTACTTCTCAT
GAACTCACCATTCCAAACGATTTGATTGGCTGCATAATCGGGCGTCAAGGCGCCAAAATCAATGAGATCCGTGAG
ATGTCTGGGGCGCAGATTAAAAATTGGTGACCCAGTGGAAGGATCTACTGATAGGCAGGTTA

1165/2777
FIGURE 1022

MLPNSTERAITIAGIPQSIIECVKQICVVMLETLSQSPPKGVTIPIYRKPSSSEVIFAGGQDRYSTGSDSASFPH
TTPSMCLNPDLEGPPLEAYTIQGQYAIQPDLTKLHQLAMQQSHFPMTHGNTGFSGMDTSVFI SVRCSARERPVP
RSQLDICLKQTSLSILLV

1166/2777
FIGURE 1023

ATGGCTGAGACGGAGGAGCGGAGCCTGGACAACTTCTTTGCCAAGAGGGACAAGAAGAAGAAGGAGCGGAGC
AACC~~GGGCGGCGAGTGCCGCGGGCGCAGCGGGCAGCGCCGGCGGAAGCAGTGGAGCCGCGGGTGCGGCGGGCGGC~~
GGGGCGGGCGCGGGGACCCGGCCGGGTGACGGCGGGACCGCCAGCGCGGGGGCTGCGGGCCCAGGGGCGGCCACC
AAGGCTGTGACGAAGGACGAAGATGAATGGAAAGAATTGGAGCAAAAAGAGGTTGATTACAGCGGCCTCAGGGTT
CAGGCAATGCAAATAAGCAGTGAAGGAAGAAGACGATAATGAAAAGAGACAAGATCCAGGTGATAACTGGGAA
GAAGGTGGAGGTGGTGGTGGAGGTATGAAAAATCTTCAGGTCCCTGGAATAAACAGCTCCAGTACAAGCACCT
CCTGCTCCAGTAATTGTTACAGAAACCCAGAACCGATGACTAGTGGTGTGTATAGGCCTCCTGGGGCCAGG
TTAACCACAACAAGGAAAACACCACAAGGACCACCAGAAATCTACAGTGATACACAGTTCCCATCCCTGCAGTCA
ACTGCCAAGCATGTAGAAAGCCGGAAGGATAAAGAAATGGAGAAGAGCTTTGAAGTAGTAAGACACAAAAATAGA
GGTAGGGATGAGGTTTCAAAAAACCGGCCCTTAACTTCAGCTAGACAACCAATATGCTGTGCTTGAAAAATCAG
AAAAGCAGCCACTCACAATACAATTAA

1167/2777
FIGURE 1024

MAETEERSLDNFFAKRDKKKKKERSNRAASAAGAAGSAGGSSGAAGAAGGGAGAGTRPGDGGTASAGAAGPGAAT
KAVTKDEDEWKELEQKEVDYSGLRVQAMQISSEKEEDDNEKRQDPGDNWEEGGGGGGMEKSSGPWNKTAPVQAP
PAPVIVTETPEPAMTSGVYRPPGARLTTRKTPQGPPEIYSDTQFPSLQSTAKHVESRKDKEMEKSFEVVRHKNR
GRDEVSKNQALKLQLDNQYAVLENQKSSHSQYN

1168/2777
FIGURE 1025

[illegible]

1169/2777
FIGURE 1026

GAGSHGSLLLALRRPRELGLLRSHREGPPPRRLLARVTLPPAISSGPRCLLPDLAPSSSEPGACLGGLSVFTMEQ
LSSANTRFALDLFLALSENNPAGNIFISPFSSISSAMAMVFLGTRGNTAAQLSKTFHFNTVEEVHSRFQSLNADIN
KRGASYILKLANRLYGEKTYNFLPEFLVSTQKTYGADLASVDFQHASEDARKTINQWVKGQTEGKIPELLASGMV
DNMTKLVLVNAIYFKGNWKDKFMKEATTNAPFRLNKKDRKTVKMMYQKKKFAYGYIEDLKCRVLELPYQGEELSM
VILLPDDIEDESTGLKKIEEQLTLEKLHEWTKPENLDFIEVNVSLPRFKLEESYTLNSDLARLGVQDLFNSSKAD
LSGMSGARDIFISKIVHKSFVEVNEEGTEAAAATAGIATFCMLMPEENFTADHPFLFFIRHNSSGSILFLGRFSS
P

1170/2777
FIGURE 1027

GCCAAAATGAAGTTTAAATCCCTTTGTGACTTCCGACCGAAGCAAGAATCGCAAAGGCATTTCATGCACCTTCC
CACATTCTGAAGGAAGATTATGTCTTCCCCTCTTTCCAAAGAGCTGAGACAGAAGTACAACGTGCGATCCATGCCC
ATCCGAAAGGATGATGAAGTTCAGGTTGTACGTGGACACTATAAAGGTCAGCAAATTGGCAAAGTAGTCCAGGTT
TACAGGAAGAAATATGTTATCTACATTGAACGGGTGCAGCGGGAAAAGGCTAATGGCACAACTGTCCACGTAGGC
ATTCACCCCAGCAAGGTGGTTATCACTAGGCTAAACTGGACAAAGACCGCAAAAAGATCCTCGAACGGGAAAGCC
AAATCTCGCCAAGTAGGAAAGGAAAAGGGCAAATACAAGGAAGAAACCATTGAGAAGATGCAGGAATAAAGTAAT
CTTATATACAAGCTTTGATTAAACTTGAAACAAAAAAAAGGGGAAGAAACGACAGCCTCACTTCTGTATGGAC
TGCTGATGTGGCCTGCCATCCTGTTTCAGCGGGCATTGTCTTTGGAGCAGCAGGAGACTAGGATGCCTCTCACTCA
CATCGAGTTCCTGGCTGGCCAGCTGCTCAGGGCTCAGGCTGGGGCCTCCCATTGACATCCTCCCCCTACACTCCC
TCTCTGAGCCTCCGTCGCCCCCTCCIGTTGGGTAAGGGTGTTGAGTGTGACTTGTGCTGAAAACCTGGTTCATATA
TAATAAATAATGGTGATGAAAAG

1171/2777
FIGURE 1028

MKFNPFVTSDRSKNRKRHFNAPSHIRRKIMSSPLSKELRQKYNVRSMPIRKDDEVQVVRGHHYKGQQIGKVVQVYR
KKYVIYIERVQREKANGTTVHVGIHPSKVVITRLKLDKDRKKILERKAKSRQVGKEKGKYKEETIEKMQE

1172/2777
FIGURE 1029

GGCGCCATTTTGCTGGAGCCTGCGACCGAGTGGGAGTGGAGTGGAGCGGCTGTGGTTGCCGACTCTTTCCTCTTC
CCCACGGTCCAGTCAGCGGGTTAATTAGGCCATCGGCCCTCGAGCCGAGACTTGTCTCTTATTTAGTTCTGGGGA
GCGCCTCGTCGACATGAGTGATGTGGAGGAAAACAACTTCGAGGGCAGAGTGAGTACAAAGCCGCGGGAGCCGTC
TAGGCGGCGGCCCAATGCTCGGGGTTTCACGGGAACAAGCGCGGTCGGGCGGGGTTGCGGGTAGTCCCGCGAGGA
GCAACCTCTGGAGCCATCGCGATTGATTCCCTCCCATCCCAAGATGGCTTCTGGGTTCCTCTTCCCCAAACAC
CACGGATAACACCCCTCCCCCTTTTTTGGAGGCTGACTGATACCTGGACTTCTGGGTCTCTTCCCTCCCCGCCC
CCGCATTGCTTCCCTCCCTTCTCCCCACCCCTGAGGCTTCTTATGTCTGCTCCGAGGTGTGGGTCCCCGTGCGGG
TTGGGCGGGAGGAGGCGGCAGGGAGCTCCCTCCGTCCGGATAGTGGTAGGTGCTTCTGCGGTGGCATTCTG
CGACCCCGAGCATCGTAGAGGGTCTCGGGATCGAAAGTGCGCGGGGCTGCTTCCGGGCGGGGAGAAGCTGGCGT
GGGACTAGCTGGGGCCTGTGTCTCCTTGGCTCTCTATTTAGTGAGCGGCCGCGTCTCTGTTGGAACCGGCGGCG
TTGCGTCTAAAAAGGCGAAAGCCTTGAGGTTGAAGGTGGGACGAGCCTAATGAAGTGGTTAGTCAACGACCGCAC
CGACCCCTAAGCGTTCTTAAGACGAGAGCTGTGAGGGGAAACTACGCAAGGAGCCCTTTTCCCTTAATGTCCCTT
CGACTTCTCTTCACTTCGAAATGAATGTGGAAATGCTGTACGCTTATTTTTCTAATTCCTCGATGTTGGGTT
TTTTCTCTTCTTATATCTCAACTTTTAAATGCTCTTCTTCTTATGACCTTTCATCTAAAACTGACCACTCCTTT
ACAGGTTTTTACGGTAAAAAAAAAAAAATCGGTCTTTCTTTAATCTTACATAGCTGAACGAATTCATTGGCTCAG
TATTTTTAAGATAACTAGTCAGTATATACTGTTCTGTAACTTAAAGATGACCTGAAAATTAACAGGCCCTCTCC
CATTTCTCTTCTCACTCTATCCCCACCGAAGAGGGCTCAGAAAAAGTTTTTATTAATATATTTGGGGTCGGAG
AAATACAAACATCACAAAGAATACGATATCCCCAGCTTAAATGTACTGGAACGTTTGTGAGTGAGTTTCATTTC
AAAGTTTACCCTACATAGGGAATTGTAGAAGTGAGTTAGTAGAAGTGAGTTCGTGTGAAACCCTGGAAAGAAAAC
AAAAGCCCCATGCAACACGTTCCGGGCTGTTGTGTAGATGTTTATTCTAGTCACTAGGGGAAGCACATAAAAAACA
CCTGAGGTGTGTGTGCTGAAGGGCGAATTTTGTCTTTTGGGGAGTTCATGATATAAACATCTAGAACCAAAAAG
TCAAAATCAGAAGGTCAGTTTAGGCTTTAGTTCTCTTTGAGGAAAGATTTAAAGCAATAGACTATAATAGTTACCC
GGTAGACTAAAAAATTTGCCTTTAATTCTTTTGATTGGAATTTTTTTTTACAAAGTTTGAGCATGGAAACAAAT
GAAAATTGAACCTGCTTATTTTTTTAGGATGGTGTATTGATGGCCCCAACAGAACTTTCTAAAATCATGCGATAAA
CATATATGATAGTAGTTGTAAAATGCTTCTTGTGTTTGAATGTTGAGTAATTATCGATAGAAATTTGCTGTCC
ATTCATACATTCTTCAATTAACCTTTCATTGTTAAAAAATGGGGGATTGATGTTTGGTTTGGTTTGTGGGGAGT
GAAGAGGACTACTGGAGGGACCTTGTTTGCTTGCTTTTTTTCTTTTTTAATTTATCATCAAGTCTAGGAAAGGA
GTAAGTTGCCGACAATTGTCACTTTTCCCTCCTAAGAAAGTAACATGTTAAGATTCCACCTACCAGCCTGGGTG
ACAGTGAGACTCCCGTCTCNNNNNNNNNNNNNNNNNNNTTCCACCCACTTTTAAGCTAAAGTATATGTAGGCA
TTAAAGATTTATTTAATAGAAATAAAGGGCCCTCTTACGGCCCTTGTGGTCATAGGAAATATTTTTTTCACAAG
TGGTACCCAAGTGATTT

1173/2777
FIGURE 1030

RHFAGACDRVGVEWSGCGCRLEFPLPHGPVSGLIRPSALEPRLVSYLVLSASST

1174/2777
FIGURE 1031

GAACACAAACATGCAGTCTGTAGCAGATGGTAATAGGCTGAYATATTACACTTGTTGATGTAAATCTGATAGGTT
TCTTTCTCTCCAAGGACAGCTTTTTAAATATTTAACAGTATCAATAATTTTTCAGTTTCTGTGAGAATTTTATAA
TTTATAATTTGCAGACTTAATGTATAATCTATTTTGTCTTAACAATTACAAATATATTTTTTATTTTCAGATTCTA
TATATTCCTACCAGATGGAGATAATTACAGCTTTAAAAATTTTATTTTTTTCATTTTATTTTCACACATTGACATT
AAATTTTTATGGACACATAATAACTGTACATATATATGGGGTAGAATGTGATGTTTTAATACATGTACTCAATGT
GTAATGATCAAATCAGGGTAATTTGCATAATGATTTTCTGTAGGGAGAAAATTCAAATCTACTCTTCTGGGCTA
TTTTCAAATATATAATATGTTATTGTTAACTATACTCATCCTACTATGCAATAGGACACCAGAACTTATTCCTGG
GTTCTACATCCGTTAAGGCAACCAAGGATTGGAAATATTGAAAAAAAATTGCGTCTGTACTGAACATGTACAG
ACTTTTTTCTTGTCTTATTTCCTTACACAATATAGTACAATAACTATTTGCGATGACATTTACATCGGATATTATG
AGTGATCTAGAGTTGATATGAAGTATATGGGAGGATGTGCAAAGGTGATGTGCAAATACTATGTCATTTTATATC
AGGGACTTGAGTATCCTTTGTTAYCCTCAGGAGATCCTGAAACYAGTCCCCCATGGATACTGAGGGCTGACTGTA
TAGTCCTATCCTCACGGAACTTTCATTCTAATGRGGGAAGACTGACTATAAACAAAAATATATGTAATAGGTGGTG
GTAAGTACCGTGGAGAAGTAACAAATGGGGCAAAGTGAGTTATACAGCTCCATYCTTAGAAACCTTGAGTACTT
TTCTTAGTTTATACTCGTGGTGGTTTCCTTTTGTCTCCTTTATTACATGGGACTCTGACATGTGCCCATAGCTAG
GGTGGCAGTAGGATCTACCCGAAAAGCGTCCTGCTGATACAGGACCAAAGCATCCTGTTGTTCTCGAGCCTATAA
AAAGAGCTAATGGTCTTGCTTCTCTTAACCTGTGGCCTCCTACACTGTGTTTTGGATGATTGGTGATGTCTTGGAT
ATTCTGTTTTCTTTGGAACCTTTGAATATACAACACTTTACTAGGGAATTAGCAATGGAAGCAGAGCAAAGATGTAC
AGAGGAAACAATGCRTAACCTCTGATGGAATTGAAGTCATGAGGCAGCAGAGAGCTTAAATTASAGCTTTAAAAAT
TTTTATTTTTTTAGAGGGAATTTAMTTGGGAGTAACAGCAGTAATAGTTAACGGAGCCAGAATGCTTGAGTCATAT
AATTGCAAAGCAGAGTTGGGAGCAACAGATGCTAAAGAGTAGTTGCTGTAGTTCCCTCTTTGGGTGCTAGGAGCAG
TTGTCATRTTMCATATAYAGCTACTGCATGAAGAAGAGTTCTTAGTGAGCCCTGGGTGAACAGCTCTTCTTAGTAT
TCTGTGTGACCCCATTYGACCTTTTAACAAATCCCTAAGTAAATAAATAGCCCCTMAGGWAACTAAGTTTTTCT
CTGCTGTTTTTTTTGCTTGAGAGAGCTATAACTGTAATAGACTTATATTTCTGAACATTTTAGTGCTTGCCAATAT
TTGGTAATATTTATGTTTCCTATATTTGTAATGAACATTCTTCTTCMGGTACATTTTGTGTTAAATTATTGTTTS
ATGSATAAAAGTTCACCTTTTATTGTATAAAATTGACTCAGATTAATTTATACACATTGACAATGGGTAAATAGA
GTTTTTCAGATTATTAAAAGCTGAAGGATGCCCATGTAAGCAAAAAAAAAAAAAAAAAAACTCGA

1175/2777
FIGURE 1032

IYSSGYFQIYNMLLLTILILLCNRTPELIPGFYIR

1176/2777
FIGURE 1033

AAAAAAAAAAAAAAAAAGTAGACGCTCGGGCACCAGCCGCGGCAAGGATGGAGCTGGGTTGCTGGACGCAGTTGGG
GCTCACTTTTCTTCAGCTCCTTCTCATCTCGTCCTTGCCAAGAGAGTACACAGTCATTAATGAAGCCTGCCCTGG
AGCAGAGTGGAAATATCATGTGTCGGGAGTGCTGTGAATATGATCAGATTGAGTGCCTGCTGCCCCGGAAAGAGGGA
AGTCGTGGGTTATACCATCCCTTGCTGCAGGAATGAGGAGAATGAGTGTGACTCCTGCCTGATCCACCCAGGTTG
TACCATCTTTGAAACTGCAAGAGCTGCCGAAATGGCTCATGGGGGGGTACCTTGGATGACTTCTATGTGAAGGG
GTTCTACTGTGCAGAGTGCCGAGCAGGCTGGTACGGAGGAGACTGCATGCGATGTGGCCAGGTTCTGCGAGCCCC
AAAGGGTCAGATTTTGTGGAAAGCTATCCCTAAATGCTCACTGTGAATGGACCATTTCATGCTAAACCTGGGTT
TGTCATCCAATAAGATTTGTTCATGTTGAGCCTGGAGTTTGACTACATGTGCCAGTATGACTATGTTGAGGTTGCG
TGATGGAGACAACCGCGATGGCCAGATCATCAAGCGTGTCTGTGGCAACGAGCGGCCAGCTCCTATCCAGAGCAT
AGGATCCTCACTCCACGTCCTCTTCCACTCCGATGGCTCCAAGAATTTTGACGGTTTCCATGCCATTTATGAGGA
GATCACAGCATGCTCCTCATCCCTTGTTTCCATGACGGCACGTGCGTCCTTGACAAGGCTGGACCTTACAAGTG
TGCCTGCTTGGCAGGCTATACTGGGCAGCGCTGTGAAAATCTTCTGGAGGCTGGGAAGTCCAAGATCAAGGCGTC
AGAAGATTCAATTGTCTGTCTTGAAGAAAGAACTGCTCAGACCCTGGGGGCCAGTCAATGGGTACCAGAAAAT
AACAGGGGGCCCTGGGCTTATCAACGGACGCCATGCTAAAATTGGCACCGTGGTGTCTTTCTTTGTAACTC
CTATGTTCTTAGTGGCAATGAGAAAAGAACTTGCCAGCAGAATGGAGAGTGGTCAGGGAAACAGCCCATCTGCAT
AAAAGCCTGCCGAGAACCAAGATTTAGACCTGGTGAGAAGGAGAGTTCTTCCGATGCAGGTTCACTCAAGGGA
GACACCATTACACAGCTATACTCAGCGGCCTTCAGCAAGCAGAACTGCAGAGTGGCCCTACCAAGAAGCCAGC
CCTTCCCTTTGGAGATCTGCCCATGGGATACCAACATCTGCATACCCAGCTCCAGTATGAGTGCATCTCACCCTT
CTACCGCCGCTGGGCAGCAGCAGGAGGACATGTCTGAGGACTGGGAAGTGGAGTGGGCGGGCACCATCCTGCAT
CCCTATCTGCGGGAAAATTGAGAACATCACTGCTCCAAAGACCCAAGGGTTGCGCTGGCCGTGGCAGGCAGCCAT
CTACAGGAGGACCAGCGGGGTGCATGACGGCAGCCTACACAAGGGAGCGTGGTTCCTAGTCTGCAGCGGTGCCCT
GGTGAATGAGCGCACTGTGGTGGTGGCTGCCACTGTGTTACTGACCTGGGGAAGGTACCATGATCAAGACAGC
AGACCTGAAAGTTGTTTTGGGGAAATTCTACCGGGATGATGACCGGGATGAGAAGACCATCCAGAGCCTACAGAT
TTCTGCTATCATTCTGCATCCCAACTATGACCCCATCCTGCTTGATGCTGACATCGCCATCCTGAAGCTCCTAGA
CAAGGCCCCGTATCAGCACCCGAGTCCAGCCCATCTGCCTCGCTGCCAGTCGGGATCTCAGCACTTCTTCCAGGA
GTCCACATCACTGTGGCTGGCTGGAATGTCCTGGCAGACGTGAGGAGCCCTGGCTTCAAGAACGACACACTGCG
CTCTGGGGTGGTCAGTGTGGTGGACTCGCTGCTGTGTGAGGAGCAGCATGAGGACCATGGCATCCCAAGTGAGTGT
CACTGATAACATGTTCTGTGCCAGCTGGGAACCCACTGCCCCTTCTGATATCTGCACTGCAGAGACAGGAGGCAT
CGCGGCTGTGTCTTCCCGGGACGAGCATCTCCTGAGCCACGCTGGCATCTGATGGGACTGGTCAGCTGGAGCTA
TGATAAAACATGCAGCCACAGGCTCTCCACTGCCTTACCAAGGTGCTGCCTTTTAAAGACTGGATTGAAAGAAA
TATGAAATGAACCATGCTCATGCACTCCTTGAGAAGTGTCTGTATATCCGTCTGTACGTGTGTCATTGCGTGA
AGCAGTGTGGGCTGAAGTGTGATTTGGCCTGTGAACTTGGCTGTGCCAGGGCTTCTGACTTCAGGGACAAAACCT
CAGTGAAGGGTGAGTAGACCTCCATTGCTGGTAGGCTGATGCCGCGTCCACTACTAGGACAGCCAATTGGAAGAT
GCCAGGGCTTGCAAGAAGTAAGTTTCTTCAAAGAAGACCATATACAAAACCTCTCCACTCCACTGACCTGGTGGT
CTTCCCCAACTTTTCAATTATACGAATGCCATCAGCTGACCAGGGAAGATCTGGGCTTCATGAGGCCCTTTTGGAG
GCTCTCAAGTTCTAGAGAGCTGCCTGTGGGACAGCCAGGGCAGCAGAGCTGGGATGTGGTGCATGCCCTTGTGT
ACATGGCCACAGTACAGTCTGGTCCCTTTTCTTCCCCATCTCTTGTACACATTTTAATAAAATAAGGGTTGGCTT
CTGAATACT

1177/2777
FIGURE 1034

MELGCWTQLGLTFLQLLLISSLPREYTVINEACPGAENIMCRECCEYDQIECVCPGKREVVGYTIPCCRNEENE
CDSCLIHPGCTIFENCKSCRNGSWGGTLDDEFYVKGFYCAECRAGWYGGDCMRCGQVLRAPKGQILLESYPLNAHC
EWIIHAKPGFVIQLRFVMLSLEFDYMCQYDYVEVRDGDNRDGOIIRKRCGNERPAPIQSIGSSLHVLFHSDGSKN
FDGFHAIYEEITACSSSPCFHDGTCVLDKAGPYKCACLAGYTGQRCENLLEAGKSKIKASEDSLSVLEERNCSDF
GGPVNGYQKITGGPGLINGRHAKIGTVVSFFCNSYVLSGNEKRTCQQNGEWSGKQPICIKACREPKISDLVRRR
VLPMQVQSRETPLHQLYSAAFSKQKLQSAPTKKPALPFGDLPMGYQHLHTQLQYECISPFYRRLGSSRRTCLRTG
KWSGRAPSCIPICGKIENITAPKTQGLRWPWQAAIYRRTSGVHDGSLHKGAWFLVCSGALVNERTVVVAHCVTD
LGKVTMIKTADLKVVLGKFYRDDDRDEKTIQSLQISAILHPNYDPILLDADIAILKLLDKARISTRVQPICLAA
SRDLSTSFQESHITVAGWNVLADVRSFGFKNDTLRSGVSVVDSLLCEEQHEDHGIPVSVTDNMFASWEPTAPS
DICTAETGGIAAVSFPGRASPEPRWHLMLVSWSYDKTCSHRLSTAFTKVLPFKDWIERNMK

1178/2777
FIGURE 1035

GGAGAAGCAGCTTGAGGCATCATTAGATGCACTGCTGAGTCAAGTGGCTGATCTGAAGAACTCTCTGGGGAGTTT
CATTTGCAAGTTGGAGAACGAGTATGGCCGGCTGACCTGGCCATCTGTCCTGGACAGCTTTGCCTTGCTTTCTGG
ACAGCTGAACACTCTGAACAAGGTCTTGAAGCATGAAAAACACCGCTGTTCCGTAACCAGGTCATCATTCTCT
GGTGTGTCTCCAGACCGAGATGAAGATCTC**ATG**CGGCAGACTGAAGGACGGGTGCCTGTTTTAGCCATGAGGT
AGTCCCTGACCATCTGAGAACCAAGCCTGACCCCTGAAGTGAAGAACAGGAGAAGCAACTGACGACAGATGCTGC
CCGCATTGGTGCAGATGCAGCCCAGAAAGCAGATCCAGAGCTTGAATAAAATGTGTTCAAACCTTCTGGAGAAAAT
CAGCAAAGAGGAGCGAGAATCAGAGAGTGGAGGTCTCCGGCCGAACAAGCAGACCTTTAACCCCTACAGACACTAA
TGCTTTGGTGGCAGCTGTTGCCTTTGGGAAAGGACTATCTAATTGGAGACCTTCAGGCAGCAGTGGTCTTGCCA
GGCAGGCCAGCCAGGAGCTGGGACGATCCTTGAGGAACCTCAGGATTACAGCAGGTGCAGATGGCAGGAGCTCC
AAGCCAGCAGCAGCCAATGCTCAGTGGGGTACAAATGGCTCAGGCAGGTCAACCAGGGAAAAATGCCAAGTGAAT
AAAAACCAACATCAAGTCGGCTTCCATGCATCCCTACCAGCGGCCCTCCTGCCTGGGTTTCATTCTGGCTATCCC
TCTAAGGCGCAAGGTGAAGAAGCTTCTGGGCCAGGAAGGAAAAAAATGCCACCTGCAGCTCTGG**TGA**AGCTT
GGGCCTGCTCTCCTTTCCATCCTCTAAGGAGCCAACCTTGGCTTTTACCTGTCAAATAGTCATAAAGTCCCCTATC
CTTTACCCACCTTATACACACGAGGCTTTCTCAGGAAGTGGCTCTGCCAGGCAGGACTATGTGGGAAAGGGTTT
TTCCTTAGCACACGAAAAAGCCCCCTCCCCTGGATTTCATGTTTCTTATTTTGGAGGGAGAAGGGAATTGCACTTC
ACACTGCCATCAGGGTTTAGTTGACCTCATAATGGTGCCCACTTTCTCGACTTTGGCCAGGATTCCTTCAAAGA
AAACGACTTTTCCTTCATTTCCCTAAGCCTGTGGCCCAAATGGTGGACCAGAATGATGGTGGGAGGGGGCAACCCC
CAGTAGCTTTGCCTGCTTTTATAAAGTTGAACAAATTGAATTTAGACATTCAGGCTAACCTGCCTTTCTTAGTAC
TCCTTTGTTGGCATGGGCAGGGGTGAGTCAGCAGAAGTGGACCAAAGGATTCTCTGAATAAAGTTATTTAAAT
TGAAAAAAAAAAAAAAAA

1179/2777
FIGURE 1036

MRQTEGRVPVFSHEVVPDHLRTKPDPEVEEQEKQLTTDAARIGADAAQKQIQSLNKMCSNLLEKISKEERESESG
GLRPNKQTFNPTDTNALVAAVAFGKGLSNWRPSGSSGPGQAGQPGAGTILAGTSGLQQVQMAGAPSQQQPMLSGV
QMAQAGQPGKMPSGIKTNIKSASMHPYQRPSCLGFI LAIPLRRKVKKLLGQEGKKN AHLQLW

1180/2777
FIGURE 1037

GGGAAGATGAGAAGGGGGGCTCCCTTCTCTAGTAGCAAAGGGTGAGGAGACTGAGTCTCCTTTCTACTGCCAGGT
CACTGGGGACTATTTGTCATGGGAGTGGAGGTGATAAGGAAGGTAGGTAGGAGTGAACAGCCTGGGGGGCTGCTG
TGAGATCCTGAGGTGGGGCGCTGCCCCAACTCCTGCCACTGTTCCCTCCTCTGTACTTTCTGTGCTCCCCCTC
CCACCAGGAGCTAGGGAGTGTGGCACTGAGCCGGCTCAGGCAGAGACGCGGCACCATGGCTAGCAAGAAAGTCTG
CATTGTAGGCTCCGGGAAC TGGGGCTCAGCCATCGCCAAGATCGTGGGTGGCAATGCAGCCCAGCTGGCACAGTT
TGACCCACGGGTGACCATGTGGGTATTTGAGGAAGACATTGGAGGCAAAAAGCTGACTGAGATCATCAACACGCA
GCATGAGAATGTCAAATACCTGCCAGGGCACAAGTTGCCCCAAATGTGGTGGCTGTCCAGATGTGGTCCAGGC
TGCAGAGGATGCTGACATCCTGATCTTTGTGGTGCCCCATCAGTTTCATCGGCAAGATCTGTGACCAGCTCAAGGG
CCATCTGAAGGCAAAACGCCACTGGCATATCTCTTATTAAGGGGGTAGACGAGGGCCCCAATGGGCTGAAGCTCAT
CTCGGAAGTGATTGGGGAGCGCCTCGGCATCCCCATGAGTGTGCTGATGGGGGCCAACATTGCCAGCGAGGTGGC
TGATGAGAAGTTCTGTGAGACAACCATTGGCTGCAAGGACCCGGCCAGGGACAACCTCTGAAAGAGCTGATGCA
GACACCAAACTTCCGTATCACAGTGGTGCAAGAGGTGGACACAGTAGAGATCTGTGGAGCCTTAAAGAATGTAGT
GGCCGTGGGGGCTGGCTTCTGTGATGGCCTGGGCTTTGGCGACAACACCAAGGCGGCAGTGATCCGGCTGGGACT
CATGGAGATGATAGCCTTCGCCAAGCTCTTCTGCAGTGGCCCTGTGTCTCTGCCACCTTCTTGGAGAGCTGTGG
TGTTGCTGACCTGATCACTACCTGCTATGGAGGGCGGAACCGGAAAGTGGCTGAGGCCTTTGCGCGTACAGGAAA
GTCCATTGAGCAGCTGGAGAAAGAGTTGCTGAATGGGCAGAACTGCAGGGGGCCGAGACAGCCCGGGAGCTATA
CAGCATCCTCCAGCACAAGGGCCTGGTAGACAAGTTTCCCTTGTTTCATGGCTGTGTACAAGGTGTGCTACGAGGG
CCAGCCAGTGGGTGAATTCATTCACTGCCTGCAGAATCATCCAGAACATATGTGAGTGGGGCCAGGGCCCAGGCC
AGGCCGCTTTTTTACCCAGTGGAGACCAGCAGAAGCCTGGGGTACCTAGTCAACCAGGATCTCCAGGACTCCCAG
GGAGCAGAGTCTTCTCATCTTTTTACTGGAGGACAGGAGGCTATGGGGCCAGCTACGCACCTGGAGATCCTGAA
CTGTCAAGCCACTGGCAGCCTCATGCCACCACATTTGCCAGAAATGCAATTGCCCTGTCCCTCTCCAGATGTGGG
GCTTTCTCCATATCCTCTGGGAGGGGTGGAATCAAGCCCCAGTGTGCTGCCTGCTTGGTGGCGGGGTGATGTATGT
GGAGAAGGGTTGGGGGAGAGGCCGGTAGGGCAGGGGCTGCTAGTGGCTGTCTCACATACACCAGTAATCCTGTTA
AAGGGCTGAAGAAGTATCTTAGCCACAGGAGCGATGAGGCAAGGATTGTCAAGGGAGGGGTCTGGGCTTCTGAGCT
GATGCAGGCCCCAAGGACCCCTTTGCTGACCTCTGCCAGGACCCACACAGCTTCGATGGATCTCAGTGTTTGTTA
ACAAAATACAAAGATCTCAAACAACCCCTTTTAGCTTCTCCTAGCAACATCTGTGTCTTCAGAAACCTCTGGTT
CTCCCCCTTCCCCCTCCCCCAGGCTGCCCTGGCACCCAAATTGCTGCCATGCTGGCATCTGTAGCTCGGTGGCTT
GACATTCTCCCCAGGGAATTCCCGGTTCTTAGTTCTTTGCCAGCTCCTCCCCACTCTGTGCGACCTTTCCAAGCC
TTCCCTCACCTCCCCGCCAGCACCTCTTTGGGGAGCAGGAACCTTAATCTGCTGACAGAGCTACACCTTTCATA
ACAGGCTCAGATCACTCAGCTCCCTGTGACCTTTGTATTACCCAGGCTTCCTTCTCAGTAGCTCTAGCTGGGGG
AGGTGTGAGCTGGGCCCCCTCCTGTGCTATCTCCCCAGAGGACATCCCTGACTCCACCCCTTCTTCTCCTCCCAAAC
TCTGCACCTCTTCTCAGCTGCTCCAGACCGGCCAGGGTAACCAGCTAACCATGCCTGGCATCTGGAAGCCAGCA
GGCCAGAGGGTGGCCCAAAGGCTGATGAACGGTAGGGAAGGGTGAGCAGATTCTATGTTGGTGGGCACCAATAT
TCCAAGGGCAGCTCTCTTTGCTGAATGAGGGCCTTCTCGTGAGGTACTGACAACACCAGCAACTCGAGAGCTGGG
AAACTCAAGGAGGAGGAAGAAAATCAAACCACCCCTACTCCCTGGGGTGAGGAAAGAACAGGAGGGGAGGAGGAG
GAGTGTGCTCTGCACTTGCTTGGCTCCAGGATGGGGTGGCAGCAGAGGAATGTACAGGTCAGCAGCTAGGCCT
CCAGCTATAAATAGTCCGGAGGGGCCGAGAGGCTCCCGCCGTCAGCAGGGCTGTGAGCTTCTGTGTGGCAGC
ACCTGGCACACTGGCTCTGGCCAGCATTATGCTAAAACCTGTTACTCTCCAATGAACCAGGGAGGCGGGCTCCT
CTCTGCGCTATCCCTTGAGAATTCTGTCTTACCAGTGAAGGGTGGGGCTGCCAGATCAGGCAGCAGGAGTGAG
GGGCACAGTCACCCCAGGCCTTGTGAGCCAGGTCTGGGTACTGAGTGTCCAGAGCTGCCTCCCCAGGAGGTTA
AGGTGGGGGCAAAGGGGAAGCTTCAAGCACTTTGCCTACTTTTGTTCCTCCAGTGCAGTGTGACTCAGGCCT
TCCCATCAGGCCTATTTGTCTACCCAATAAAGCGTGTTTTTTCCAGAAACAAGAAGAGTTGGGAGAGGGAGCTTC
AGTGATGTGGCAGTGCCTGTGCTGGCGCTATCATTGCACGTATGTTTTCCCTCTTACCGTAGGAAAAACGAAA
AAAGAAATCCCTCCTCCATAATCGCAGTACTCCAGGGGTGAGCGCGGTGCCACTCAGTCCCCATCCCTCTCT
CTCCCCCTCCCGCCAGCGCCCCCTCCCGCCCTCGCCGCAAGCTGGCCCCGGCCTTGCCGGCCCTTCTTAGGGGCTT
TATCATGCCTCCTGCAAGAATAGAGATCACACACGGGACGGAACGTTAGACTCTCATCCCTGTGCCATTCTCT
TGGTCAGGGCCAAGCTGCCGCATCCTTAGCGGTCCAGGCATCGCGGTGCCCTCGGGCCCCCTACCTGGACTAGG
CCCACAGCCGGGCTCTAGGGGGCGCGCATCCACCTCCAGAAGGCCGGCTGCGAAAATCTACCCA

1181/2777
FIGURE 1038

MASKKVCIVGSGNWGSAIAKIVGGNAAQLAQFDPRVTMWVFEEDIGGKKLTEIINTQHENVKYLPGHKLPPNVVA
VPDVVQAAEDADILIFVVPHQFIGKICDQLKGHLKANATGISLIKGVDEGPNGLKLISEVIGERLGIPMSVLMGA
NIASEVADEKFCETTIGCKDPAQGQLLKELMQTPNFRITVVQEVDTVEICGALKNVVAVGAGFCDGLGFGDNTKA
AVIRLGLMEMIAFAKLFCSGPVSSATFLESCGVADLITTCYGGRRNRKVAEAFARTGKSIEQLEKELLNGQKLQGP
ETARELYSILQHKGLVDKFPLFMAVYKVCYEGQPVGEFIHCLQNHPEHM

1182/2777
FIGURE 1039A

ACCGGGAGCGCGCTCTGATCCGAGGAGACCCCGCGCTCCCGCAGCCATGGGCACCGGGGGCCGGCGGGGGGCG
GCGGCCGCGCCGCTGCTGGTGGCGGTGGCCGCGCTGCTACTGGGCGCCGCGGGCCACCTGTACCCCGGAGAGGTG
TGTCGCCGCATGGATATCCGGAACAACCTCACTAGGTTGCATGAGCTGGAGAATTGCTCTGTCAATCGAAGGACAC
TTGCAGATACTCTTGATGTTCAAACGAGGCCCCGAAGATTTCCGAGACCTCAGTTTCCCCAACTCATCATGATC
ACTGATTACTTGCTGCTCTTCCGGGTCTATGGGCTCGAGAGCCTGAAGGACCTGTTCCCCAACCTCACGGTCATC
CGGGGATCACGACTGTTCTTTAACTACGCGCTGGTCATCTTCGAGATGGTTTACCTCAAGGAACCTCGGCCTCTAC
AACCTGATGAACATCACCCGGGGTTCTGTCCGCATCGAGAAGAACAATGAGCTCTGTTACTTGGCCACTATCGAC
TGGTCCCGTATCCTGGATTCCGTGGAGGATAATTACATCGTGTGTAACAAAGATGACAACGAGGAGTGTGGAGAC
ATCTGTCCGGGTACCGCGAAGGGCAAGACCAACTGCCCCGCCACCGTCATCAACGGGCAGTTTGTGCAACGATGT
TGGACTCATAGTCACTGCCAGAAAGTTTGCCCGACCATCTGTAAGTCACACGGCTGCACCGCCGAAGGCCTCTGT
TGCCACAGCGAGTGCCTGGGCAACTGTTCTCAGCCCCGACGACCCCAAGTGCCTGGCTGCCCAACTTCTAC
CTGGACGGCAGGTGTGTGGAGACCTGCCCCCCCCGTACTACCCTTCCAGGACTGGCGCTGTGTGAACCTTCAGC
TTCTGCCAGGACCTGCACCACAAATGCAAGAACTCGCGGAGGCAGGGCTGCCACCAGTACGTCATTACACAACAC
AAGTGCATCCCTGAGTGTCCCTCCGGGTACACGATGAATTCCAGCAACTTGTGTGACCCCCATGCCTGGGTCCC
TGTCCTCAAGGTGTGCCACCTCCTAGAAGGCGAGAAGACCATCGACTCGGTGACGTCTGCCAGGAGCTCCGAGGA
TGCACCGTCATCAACGGGAGTCTGATCATCAACATTCGAGGAGGCAACAATCTGGCAGCTGAGCTAGAAGCCAAC
CTCGGCCTCATTGAAGAAATTTAGGGTATCTAAAATCCGCCGATCCTACGCTCTGGTGTCACTTTCCTTCTTC
CGGAAGTTACGTCTGATTTCGAGGAGAGACCTTGGAATTTGGGAATACTCCTTCTATGCCTTGGACAACCGAAC
CTAAGGCAGCTCTGGGACTGGAGCAAACACAACCTCACCATCACTCAGGGGAACTCTTCTTCCACTATAACCCC
AAACTCTGCTTGTGTCAGAAATCCACAAGATGGAAGAAGTTTCAGGAACCAAGGGGCGCCAGGAGAGAAACGACATT
GCCCTGAAGACCAATGGGGACCAGGCATCCTGTGAAAATGAGTTACTTAAATTTCTTACATTCCGACATCTTTT
GACAAGATCTTGCTGAGATGGGAGCCGTACTGGCCCCCGACTTCCGAGACCTCTTGGGGTTCATGCTGTTCTAC
AAAGAGGCCCCCTTATCAGAATGTGACGGAGTTCGACGGGCAGGATGCATGTGGTTCCAACAGTTGGACGGTGGTA
GACATTGACCCACCCCTGAGGTCCAACGACCCCAATCACAGAACCACCCAGGGTGGCTGATGCGGGGTCTCAAG
CCCTGGACCCAGTATGCCATCTTTGTGAAGACCCTGGTCACCTTTTCGGATGAACGCCGGACCTATGGGGCCAAG
AGTGACATCATTTATGTCCAGACAGATGCCACCAACCCCTCTGTGCCCTGGATCCAATCTCAGTGTCTAACTCA
TCATCCCAGATTATTCTGAAGTGGAAACCACCTCCGACCCCAATGGCAACATCACCCACTACCTGGTTTTCTGG
GAGAGGCAGGCGGAAGACAGTGAAGTGTTCGAGCTGGATTATTGCCTCAAAGGGCTGAAGCTGCCCTCGAGGACC
TGGTCTCCACCATTCGAGTCTGAAGATTCTCAGAAGCACAACCAGAGTGAGTATGAGGATTCCGGCCGGCGAATGC
TGCTCCTGTCAAAGACAGACTCTCAGATCCTGAAGGAGCTGGAGGAGTCCCTCGTTTAGGAAGACGTTTGAGGAT
TACCTGCACAACGTGGTTTTCTGTCGCCAGGCCATCTCGAAACGCAGGTCCCTTGGCGATGTTGGGAATGTGACG
GTGGCCGTGCCACGGTGGCAGCTTCCCCAACACTTCTCGACCAGCGTGCCACAGAGTCCGGAGGAGCACAGG
CCTTTTGAGAAGGTGGTGAACAAGGAGTCGCTGGTCATCTCCGGCTTGGCAGACTTCACGGGCTATCGCATCGAG
CTGCAGGCTTGCAACCAGGACACCCCTGAGGAACGGTGCAGTGTGGCAGCCTACGTCAGTGCGAGGACCATGCCT
GAAGCCAAGGCTGATGACATTGTTGGCCCTGTGACGCATGAAATCTTTGAGAACAACGTCGTCCACTTGATGTGG
CAGGAGCCGAAGGAGCCCAATGGTCTGATCGTGTGATGAAGTGAGTTATCGGCGATATGGTGATGAGGAGCTG
CATCTCTGCGTCTCCCGCAAGCACTTCGCTCTGGAACGGGGCTGCAGGCTGCGTGGGCTGTACCGGGGAACCTAC
AGCGTGCGAATCCGGGCCACCTCCCTTGGCGGGCAACGGCTCTTGACGGAACCCACCTATTTCTACGTGACAGAC
TATTTAGACGTCCCGTCAAATATTGCAAAAATTATCATCGCCCCCTCATCTTTGTCTTTCTCTTACGTGTTGTG
ATTGGAAGTATTTATCTATTCTTGAGAAAGAGGCAGCCAGATGGGCCGCTGGGACCGCTTTACGCTTCTTCAAAC
CCTGAGTATCTCAGTGCCAGTGATGTGTTTCCATGCTCTGTGTACGTGCCGACGAGTGGGAGGTGTCTCGAGAG
AAGATCACCCCTCCTTCGAGAGCTGGGGCAGGGCTCCTTCGGCATGGTGTATGAGGGCAATGCCAGGGACATCATC
AAGGGTGAGGCAGAGACCCGCTGGCGGTGAAGACGGTCAACGAGTCAGCCAGTCTCCGAGAGCGGATTGAGTTC
CTCAATGAGGCCTCGGTATGAAGGGCTTACCTGCCATCACGTGGTGCCTCCTGGGAGTGGTGTCCAAGGGC
CAGCCACGCTGGTGGTGTGAGCTGATGGCTCACGGAGACCTGAAGAGCTACCTCCGTTCTCTGCGGCCAGAG
GCTGAGAATAATCCTGGCCGCCCTCCCCCTACCCTTCAAGAGATGATTGAGATGGCGGCAGAGATTGCTGACGGG
ATGGCCTACCTGAACGCCAAGAAGTTTGTGCATCGGGACCTGGCAGCGAGAACTGCATGGTTCGCCCATGATTTT
ACTGTCAAATTTGGAGACTTTGGAATGACCAGAGACATCTATGAAACGGATTACTACCGGAAAGGGGGCAAGGGT

1183/2777
FIGURE 1039B

CTGCTCCCTGTACGGTGGATGGCACCGGAGTCCCTGAAGGATGGGGTCTTCACCACTTCTTCTGACATGTGGTCC
TTTGGCGTGGTCCCTTTGGGAAATCACCAGCTTGGCAGAACAGCCTTACCAAGGCCTGTCTAATGAACAGGTGTTG
AAATTTGTGATGGATGGAGGGTATCTGGATCAACCCGACAACCTGTCCAGAGAGAGTCACTGACCTCATGCGCATG
TGCTGGCAATTCAACCCCAACATGAGGCCAACCTTCCTGGAGATTGTCAACCTGCTCAAGGACGACCTGCACCCC
AGCTTTCAGAGGTGTCGTTCTTCCACAGCGAGGAGAACAAGGCTCCCGAGAGTGAGGAGCTGGAGATGGAGTTT
GAGGACATGGAGAATGTGCCCTGGACCGTTTCCTCGCACTGTGAGAGGGAGGAGGCGGGGGGCCGGGATGGAGGG
TCCTCGCTGGGTTTCAAGCGGAGCTACGAGGAACACATCCCTTACACACACATGAACGGAGGCAAGAAAAACGGG
CGGATTCTGACCTTGCCTCGGTCCAATCCTTCCTAACAGTGCCTACCGTGGCGGGGGCGGGCAGGGGTTCCCAT
TTCGCTTTCCTCTGGTTTGAAAGCCTCTGGAAAACTCAGGATTCTCACGACTCTACCATGTCCAATGGAGTTTCAG
AGATCGTTCCCTATACATTTCTGTTTCATCTTAAGGTGGACTCGTTTGGTTTACCAATTTAACTAGTCCTGCAGAGGA
TTTAACTGTGAACCTGGAGGGCAAGGGGTTTCCACAGTTGCTGCTCCTTTGGGGCAACGACGTTTCAAACCAGG
ATTTTGTGTTTTTTTCGTTCCCCCACC CGCCCCCAGCAGATGGAAAAGAAAGCACCTGTTTTTACAAATTCTTTTT
TTTTTTTTTTTTTTTTTGCTGGTGTCTGAGCTTCAGTATAAAAGACAAAACCTCCTGTTTGTGGAACAAAAGTTTCG
AAAGAAAAAACAAAACAAAACACCCAGCCCTGTTCCAGGAGAATTTCAAGTTTACAGGTTGAGCTTCAAGATG
GTTTTTTTGGTTTTTTTTTTTTTCTCTCATCCAGGCTGAAGGATTTTTTTTTTCTTTACAAAATGAGTTCCTCAA
TTGACCAATAGCTGCTGCTTTTCATATTTTGATAAGGGTCTGTGGTCCCGCGTGTGCTCACGTGTGTATGCACG
TGTGTGTGTCCATTAGACACGGCTGACGTGTGTGCAAAGTATCCATGCGGAGTTGATGCTTTGGGAATTGGCTCA
TGAAGGTTCTTCTCAAGGGTGCAGCTCATCCCCCTCTCTCCTTCCTTCTTATTGACTGGGAGACTGTGCTCTCG
ACAGATTCTTCTTGTGTCAGAAGTCTAGCCTCAGGTTTCTACCTCCCTTCACATTGGTGGCCAAGGGAGGAGCA
TTTCATTTGGAGTGATTATGAATCTTTTCAAGACCAACCAAGCTAGGACATTAAAAAAAAAAAAAGAAAAAGA
AAGAAAAAACAAAATGGAAAAAGGAAAAAAAAAAAAAGAACTGAGATGACAGAGTTTGAGAATATATTTGTACCAT
ATTTA

1184/2777
FIGURE 1040

MGTGGRRGAAAAPLLVAVAALLLGAAGHLYPGEVCPGMDIRNNLTRLHELENC SVIEGHLQILLMFKTRPEDFRD
LSFPKLIMITDYLLLFRVYGLESKDLFPNLT VIRGSRLFFNYALVIFEMVHLKELGLYNLMNITRGSVRIEKN
ELCYLATIDWSRILDSVEDNYIVLNKDDNEECGDICPGTAKGKTNCPATVINGQFVERCWTHSHCQKVCPTICKS
HGCTAEGLCCHSECLGNCSQPDDPTKCVACRNFYLDGRCVETCPPPYHFDWRCVNF SFCQDLHHKCKNSRRQG
CHQYVIHNNKCIPECPSGYTMNSSNLLCTPCLGPCPKVCHLLEGEKTIDSVTSAQELRGCTVINGSLIINIRGGN
NLAAELEANLGLIEEISGYLKIRRSYALVLSFFRKLRLIRGETLEIGNYSFYALDNQNLRLQLDWWSKHNLITQ
GKLFFHYNPKLCLSEIHKMEEVSGTKGRQERNDIALKTNGDQASCENELLKFSYIRTSFDKILLRWEPLYWPPDFR
DLLGFMLFYKEAPYQNVTEFDGQDACGSNSWTVDIDPPLRSNDPKSQNHPGWLMRGLKPWTQYAI FVKTLVTFS
DERRTYGAKSDIIYVQTDATNP SVPLDPISVSNSSSQIILKWKPPSDPNGNITHYLVFWERQAEDSELFELDYCL
KGLKLPSRTWSPPFESEDSQKHNOSEYEDSAGECCSCP KTD SQILKELEESSFRKTFEDYLHN VVFVPRPSRKRR
SLGDVGNVTVA VPTVA AFPNTSSTSVPTSPEEHRPF EKVVNKESLVISGLRHFTGYRIELQACNQDTPEERCSVA
AYVSARTMPEAKADDIVGPVTHEIFENNVVHLMWQEPKEPNGLIVLYEVSYRRYGDEELHLCVSRKHFALE R GCR
LRGLSPGNYSVRIRATSLAGNGSWTEPTYFYVTDYLDVPSNIAKIIIGPLIFVFLFSVVIGSIYLF LRKRQPDGP
LGPLYASSNPEYLSASDVFP CSVYVPDEWEVSREKITLLRELQGSGFMVYEGNARDI IKGEAETRVAVKTVNES
ASLRERIEFLNEASVMKGF TCHHVVRLLGVVSKGQPTLVVMELMAHGD LKSYLRSLRPEAENNPGRPPPTLQEMI
QMAAEIADGMAYLNAKKFVHRDLAARNCMVAHDF TVKIGDFGMTRDIYETDYRKGGKGLLPVRWMAPE SLKDGV
FTTSSDMWSFGVVLWEITSLAEQPYQGLSNEQVLKFVMDGGYLDQPDNCPERVTDLMRMCWQFNPNMRPTFLEIV
NLLKDDLHPSFPFVSFFHSEENKAPES EEELEMEFEDMENVPLDRSSH CQREEAGGRDGGSSLGFKRSYEEHIPYT
HMNGGKKNGRILTLPRSNPS

1185/2777
FIGURE 1041

CTGCAGGGAGGCAGGTAGAAAAGGCTTTTGGGTTTTTCAGGTGGGGGGCAGTCTAGCCTGATCAGAAAGGAGGAAA
AGGCCAGGGCAGATGTCTGGGTGGAGTGAAGGGAAAAAGTGATCCCAGAAGAAGGATTAGCCCCTGAAAGTCCCT
GAAGTAGGAGAAGGGTAAAGGTGTGGTTGGTGAAGGAAAGCAGGTTTTCCCAGATTAGCAACCAGTCAGGGGGAG
GAAGGTGAGAGTGGGAGAGTCATAAGTAAATTATTCTGAATGTGTGTAGTTAATGGAATTGGGAAAAAGATGGG
GGAAATGGATGGAAGGTCTTGGACTCTGAGACAAGGGGTCTATAATCAGTCCATTTTCATTATTTCTAGCTTCCAC
CTTCACCAAGGCAGACAAGGAGGGGCCACCTCAGCTCCTCTGCTCCCCCTCCCTTTCCCACCTATTCATGTGTGC
AAGAGTGCCCTGTCCACAGAACACGGGGAACAACCATCTCAATGACAAGGACAGCAGGTGGCAAGGCTCAACAG
GACTCAGATGTCCCCCAGGGTTAACTCATGAAACCTCCATGAAGCCTGCTGCTCACCCTCCCTCAAGGCAAG
CCCTGCACCTGGGTCTGAGGATGAGGGTGGCAGTGAAAATTAGGCCAGTGACATCATTTTCAGCCAGCTAGTGCC
AAAAATATCAGGTGGTGTTCATCAAATAAGCCGAGCCAACCGGTGATGAGGATGGTAGTGTGAGTCATGTGTGA
CAGGTGAGGAATGAAAACAGAGTGCCCGAGAGCTTCTATTTCCCTTGAGGCAGGGCTCATTTCATCTTATAAAAGCC
AGCTGGCCATTGCCTTCACACCAACCCAAGGGACCACACAGCCCATTCTGCTCCGTATACCAGGTAAGTCTCTG
ATTGCAACAACTGGCAATTCTAGTGTACTTTTTTCATTATTAGAAATTAGCTAAAGGCAAATATGTGTAAGCAGG
TTAATCCAGGGTTTCAATGGGAGATAGAGAATAGTGAATATCTTTATTTTAAAGTTAAATTACAGTCTGGATTTG
AAAGGACCTTAGAGATGGTTAGGGCTCCCACCTCAGTAGATAGTCATTGAACTGGGAGTCTGGAGAAGATTGTT
CAATGCCCATGGGAAGTTCATAGCAGAACTAGAACTCAGGCCAGAGCACTCTCAGTAACACTGCAATTTCCCCC
TGACAAGATATTTATAGAAATTTTAATTTATTAGATGGATCTCTACTGAGCATTTATTCCATTTAAGGCAGTATG
CTAGGCACTTTGGACAAATCAATGCCCTAACGTACTTACTTAACAAACATAAAACCTAGCAGGAAGGTAATACAT
ATATATAAATAAATGAAATGCAAAGTAGATAGTAATTGGCATGACGGAGATGGGCAGAGAAGGGCTGTGCACTTT
TGGGAGACTTGCTCAAGGAGACCTCTAGGGTGTCAAGTGATGTGAGCTATGATGGAGGGGTATTTGGACAAGCAG
AGATGGGAAGAAAAGCATTGGAAGGGACTGTGTAAGCACAGACCAGAAGCAAAACCATAGAGGCTTAGATGAAT
ATAAAGCCATCCTATAAGTCACAGGCTTTCTACATGGTACTAGGAGAGGAAAAGTGGTCTGATGCCATTTTCCAAA
AGACCTAATATGCGGACCTCATGTCCCTCAGAAGCCAGCTTTAGTAGGGCATTTTTCCAGAACAGATATAAGGTG
CCTTGGGTAGGAAGGGAGCCAAGAAGAGAACTCCAATAAAATGGAGCAGAAGAAAATTGCCTTTTAGCTCCTCCTC
TTCAAAGGGCCTGAAAATTATCCAAGCTTATTTTCATTTTTTAAATGTAATGGGGGAGCTAAGGGAGATGAAAGGCT
TTCTCTTCTAAAGGGTCCGAAATAAAATCTGTTTGGCATTGAATTTGTATCCATCTTTCTTTAATTGAATCACT
GTGTCAGCTTTCTGTCTCTAGAAAAAACACATTTGAAGCATGAATTCTCAGCAGCAGAAGCAGCCTTGCACCCC
ACCCCTCAGCCTCAGCAGCAGCAGGTGAAACAACCTTGCCAGCCTCCACCCCAGGAACCATGCATCCCCAAAC
CAAGGAGCCCTGCCAACCAAGGTGCCTGAGCCCTGCCACCCCAAAGTGCCTGAGCCCTGCCAGCCCAAGATTCC
AGAGCCCTGCCAGCCCAAGGTGCCTGAGCCCTGCCCTTCAACGGTCACTCCAGCACCAGCCAGCAGAAGACCAA
GCAGAAGTAATGTGGTCCACAGCCATGCCCTTGAGGAGCTGGCCACTGGATACTGAACACCCTACTCCATTCTGC
TTATGAATCCCATTTGCCATTGACCCTGCAGTTAGCATGCTGTACCCCTGAATCATAATCGCTCCTTTGCACCT
CTAAAAAGATGTCCCTTACCCTCATTCTGGAGGCTCCTGAGCCTCTGCGTAAGGCTGAACGTCTCACTGACTGAG
CTAGTCTTCTTGTGTGCTCGGGTGCATTTGAGGATGGATTTGGGGAAGGTCAAGTGACCATCCCTAG

1186/2777
FIGURE 1042

MNSQQQKQPCIPPPQPOQQQVKQPCQPPQEPICPKTKEPCQPKVPEPCHPKVPEPCQPKIPEPCQPKVPEPCPS
TVTPAPAQQKTKQK

GCCTGCTCTCCAGGCATCTGCCACAAATGTGGGTGCTTACACCTGCTGCTTTTGTCTGGGAAGCTCTTGAGTGTGTTCC
AGGCAACCTCTGAGCTCTCTGTGGAGGAGCCTGGTCCCCTGTTCTGCTGGCTGAGGGCAACCTTCTGGCTGCTA
GCTACCAAGAGGAGAAAAGCAGCAGCTGGTCTGAGAGGGCCAGATGAGACCAAAGAGGAGGAAGAGGACCCCTCT
CTGCCCCACCACCCCAACCAGCGTCAACTATCACTTCACTCGCCAGTGCAACTACAAATGCGGCTTCTGTTTCCAC
ACAGCCAAAAACATCCTTTGTGCTGCCCCTTGAGGAAGCAAAAGAGAGGATTGCTTTTGTCTTAAGGAAGCTGGTATG
GAGAAGATCAACTTTTTAGGTGGAGAGCCATTTCTTCAAGACCGGGGAGAATACCTGGGCAAGTTGGTGAGGTTT
TGCAAAGTAGAGTTGCGGCTGCCCAGCGTGAGCATCGTGAGCAATGGAAAGCCTGATCCGGGAGAGGTGGTTCCAG
AATTATGGTGAGTATTTGGACATTCTCGCTATCTCTGTGACAGCTTTGACGAGGAAGTCAATGTCCTTATTGGC
CGTGGCCAAGGAAAAGAAGAACCATGTGGAAAAACCTTCAAAAGCTGAGGAGGTGGTGATAGGGATTATAGAGTCGCT
TTCAAGATAAAATTCTGTCAATTAATCGTTTCAACGTGGAAAGAGGACATGACCGAACAGATCAAAGCACTAAACCTT
GTCCGCTGGAAAAGTGTTCCAGTGCCCTCTTAATTGAGGGTGAGAATTGTGGAGAAGATGCTCTAAGAGAAGCAGAA
AGATTTGTTATTGGTGATGAAGAATTTGAAAGATTCTTGGAGCGCCACAAAGAAGTGTCCTGCTTGGTGCCTGAA
TCTAACCAGAAGATGAAAAGACTCCTACCTTATTCTGGATGAATATATGCGCTTCTGAACTGTAGAAAAGGACGG
AAGGACCCCTTCCAAGTCCATCCTGGATGTTGGTGTAAGAAGCTATAAAATTCAGTGGATTGATGAAAAGATG
TTTTCTGAAGCGAGGAGGAAAAATACATATGGAGTAAGGCTGATCTGAAGCTGGATTGGTAGAGCGGAAAGTGGAAC
GAGACTTCAACACACCAGTGGGAAAACTCCTAGAGTAACCTGCCATTGTCTGCAATACTATCCCGTTGGTATTTC
CAGTGGCTGAAAACTGATTTTTCTGCTGCACGTGGCATCTGATTACCTGTGGTCACTGAACACACGAATAACTTG
GATAGCAAATCCTGAGACAATGGAAAAACCATTAACCTTTACTTTCATTGGCTTATAACCTTGTGTTATTGAAACAG
CACTTCTGTTTTTTGAGTTTTGTTTTAGCTAAAAAGAAGGAATACACACAGGAATAATGACCCCAAAAAATGCTTAGA
TAAGGCCCCCTATACACAGGACCTGACATTTAGCTCAATGATGCGTTTGTAAAGAAATAAGCTCTAGTGATATCTGT
GGGGGCAAAATTTAATTTGGATTTGATTTTTTAAAAACAATGTTTACTGCGATTTCATATTTCCATTTTGAAACT
ATTTCTTGTTCAGGTTTGTTCATTTGACAGAGTCAGTATTTTTTGCCAAATATCCAGATAACCAGTTTTTCACAT
CTGAGACATTACAAAGTATCTGCCCTCAATTATTTCTGCTGGTTATAATGCTTTTTTTTTTTTGCCTTTATGCCAT
TGCAGTCTTGTACTTTTTACTGTGATGTACAGAAATAGTCAACAGATGTTTCCAAGAACATATGATATGATAATC
CTACCAATTTTCAAGAAGTCTCTAGAAAAGAGATAACACATGGAAAGACGGCGTGGTGCAGCCCAGCCCACGGTGC
CTGTTCCATGAATGCTGGCTACCTATGTGTGTGGTACCTGTTGTGTCCCTTTCTCTTCAAAGATCCCTGAGCAAA
ACAAAGATACGCTTTCCATTTGATGATGGAGTTGACATGGAGGCAGTGCTTGCATTGCTTTGTTTCGCTATCATC
TGGCCACATGAGGCTGTCAAGCAAAAAGAAATAGGAGTGATGTTGAGTAGCTGGTTGGCCCTACATTTCTGAGAAGT
GACGTTACACTGGGTTGGCATAAGATATCCTAAAAATCACGCTGGAACCTTGGGCAAGGAAGAAATGTGAGCAAGAG
TAGAGAGAGTGCTGGATTTCAATGTCAGTGAAGCCATGTCACCATATCATATTTTTGAATGAACTCTGAGTCAGT
TGAAATAGGGTACCATCTAGGTCAGTTTAAAGAAGAGTCAGCTCAGAGAAAAGCAAGCATAAGGGAAAAATGTCACGT
AAACTAGATCAGGGAACAAAAATCCTCTCCTTGTGGAAAATATCCCATGTCAGTTTGTGATACAACTTAGTATCTTA
TTGCCATAAAAAAAATTTCTTATCATTTGTTTCAAAAAAGCAAAATCATGGAAAATTTTTGTTGTCCAGGCAAATA
AAAGGTCATTTTAATTTAAAAAAG
TAAATTTTAAGTCTATAAATTCATTTAAATATGTGTGTGTCTCATCCAGGATAGGATAGGTTGTCTTCTATTTTC
CATTTTACCTATTTACTTTTTTTTGTAAAGAAAAGAGAAGAAATGAATTCTAAAGATGTTCCCATGGGTTTTGATTG
TGTCTAAGCTATGATGACCTTCATATAATCAGCATAAACATAAAACAAATTTTTTACTTAACATGAGTGCACTTT
ACTAATCCTCATGGCACAGTGGCTCACGCCGTGAATCCAGCACTTGGGGAGGACAATGTGGGGTGGATCACGAG
GTC

1188/2777
FIGURE 1044

MWVLTPAAFAGKLLSVFRQPLSSLWRSVLPLFCWLRATFWLLATKRRKQQLVLRGPDETKEEEEDPPLPTTPTSV
NYHFTRQCNYKCGFCFHTAKTSFVLPLEEAKRGLLLLKEAGMEKINFSGGEFFLQDRGEYLGLVRFCKVELRLP
SVSIVSNGSLIRERWFQNYGEYLDILAISCDSDDEEVNVLIGRGQGKKNHVENLQKLRRWCRDYRVAFKINSVIN
RFNVEEDMTEQIKALNPFVRWKVFQCLLIEGENCGEDALREAERFVIGDEEERFLERHKEVSCLVPESNQMKDS
YLILDEYMRFLNCRKGRKDPSSKSIDVGVEEAIKFSGFDEKMFLKRGKGIWSKADLKLDW

1189/2777
FIGURE 1045

ATTATAAGGAGAATGAACGATTTCAATATAAATGTAACATGGGTTATGAATACAGTGAAAGAGGAGATGCTGTA
TGCACCTGAATCTGGATGGCGTCCGTTGCCTTCATGTGAAGAAAAATCATGTGATAATCCTTATATTCCAAATGGT
GACTACTCACCTTTAAGGATTAAACACAGAACTGGAGATGAAATCACGTACCAGTGTAGAAATGGTTTTTATCCT
GCAACCCGGGGAAATACAGCCAAATGCACAAGTACTGGCTGGATACCTGCTCCGAGATGTACCTTGAAACCTTGT
GATTATCCAGACATTAAACATGGAGGTCTATATCATGAGAATATGCGTAGACCATACTTTCCAGTAGCTGTAGGA
AAATATTACTCCTATTACTGTGATGAACATTTTGAGACTCCGTCAGGAAGTTACTGGGATCACATTCATTGCACA
CAAGATGGATGGTCGCCAGCAGTACCATGCCTCAGAAAAATGTTATTTTCCTTATTTGGAAAATGGATATAATCAA
AATTATGGAAGAAAGTTTGTACAGGGTAAATCTATAGACGTTGCCTGCCATCCTGGCTACGCTCTTCCAAAAGCG
CAGACCACAGTTACATGTATGGAGAATGGCTGGTCTCCTACTCCCAGATGCATCCGTGTCAGCTTTACCCCTCTGA
ACTTCTGATCGAAGGTCATCCCTCTCCAGCTTGAGTGGATCAAAGATGACAAGGGCCAATGGAACCAAGTTTGAG
TCTTGCCAGGTCAATACTTGGGTCTGAGTATGGTGACTAGTATCTGTTTTGTTATGTGTGTATTATTCCAGCCA
GAATGGGAAATGCTAATTCAGCTCCTCCAGGCAGCCCAATGGGGCTGGTGGCTTTGAGATTATTAAACTCTTTCT
CTGCTGC